10/033-167

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INTERNATIONAL APPLICATION PUBLIS	HED U	NDER THE PATENT COOPERAT	ION TREATY (PCT)
(51) International Patent Classification 6:		(11) International Publication Number:	WO 98/45437
C12N 15/12, C07K 14/47, A61K 38/17, C12N 5/10, C12Q 1/68	A2	(43) International Publication Date:	15 October 1998 (15.10.98)
(21) International Application Number: PCT/US (22) International Filing Date: 10 April 1998 ((23) Priority Data: 08/837,312 10 April 1997 (10.04,97) (27) Applicant: GENETICS INSTITUTE, INC. [US/US]: bridgePark Drive, Cambridge, MA 02140 (US). (27) Inventors: JACOBS, Kenneth; 151 Beaumont Averton, MA 02160 (US). MCCOY, John, M.; 56 Street, Reading, MA 01867 (US). LAVALLIE, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). Lisa, A.; 124 School Street, Acton, MA 01720 (UBERG, David; 2 Orchard Drive, Acton, MA 01720 (UBERGY, Maurice; 93 Walcott Road, Chestnut 02167 (US). SPAULDING, Vikki; 11 Meadowbb Billerica, MA 01821 (US). AGOSTINO, Micha Wolcott Avenue, Andover, MA 01810 (US). (24) Agent: SPRUNGER, Suzanne, A.; Genetics Institute CambridgePark Drive, Cambridge, MA 02140 (US)	(10.04.9 1 (10.04	BY, CA, CH, CN, CU, CZ, E GH, GM, GW, HU, ID, IL, I LC, LK, LR, LS, LT, LU, LY MX, NO, NZ, PL, PT, RO, RU TM, TR, TT, UA, UG, UZ, (GH, GM, KE, LS, MW, SD, (AM, AZ, BY, KG, KZ, MD,) (AT, BE, CH, CY, DE, DK, LU, MC, NL, PT, SE), OAPI CM, GA, GN, ML, MR, NE, Without international search upon receipt of that report.	E, DK, EE, ES, FI, GB, GE, S, JP, KE, KG, KP, KR, KZ, V, MD, MG, MK, MN, MW, J, SD, SE, SG, SI, SK, SL, TJ, VN, YU, ZW, ARIPO patent SZ, UG, ZW), Eurasian patent RU, TJ, TM), European patent ES, FI, FR, GB, GR, IE, IT, patent (BF, BJ, CF, CG, CI, SN, TD, TG).

(57) Abstract

Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.

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SECRETED EXPRESSED SEQUENCE TAGS (sESTs)

FIELD OF THE INVENTION

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The present invention provides novel polynucleotides which are expressed sequence tags (ESTs) for secreted proteins.

BACKGROUND OF THE INVENTION

Gargantuan efforts have been employed by various investigational projects to randomly sequence portions of naturally-occurring cDNAs. The rationale behind this approach to identification and sequencing genes is founded in two basic principles: (1) that transcribed cDNAs represent the product of the most important genes, namely those that are actually expressed *in vivo*, and (2) that efforts to sequence genes and other portions of the genome of target organisms which are not actually expressed wastes substantial effort on areas not likely to yield genetic information of therapeutic importance. Thus, the high-throughput sequencing efforts focus on only those portions of the genome which are expressed. The randomly produced cDNA sequences represent "expressed sequence tags" or "ESTs", which identify and can be used as probes for the longer, full-length cDNA or genomic sequence from which they were transcribed.

Although this "shortcut" approach to genomic sequencing presents savings of effort compared to sequencing of the complete genome, it still produced a vast array of ESTs which may not be directly useful as protein therapeutics. To date, the majority of protein-related drug discovery has focused on the use of secreted proteins to produce a desired therapeutic effect. Since the EST approach theoretically identifies all expressed proteins, it produces an EST library which contains a mixture of secreted proteins (such as hormones, cytokines and receptors) and non-secreted proteins (such as, for example, metabolic enzymes and cellular structural proteins), without identifying which ESTs correspond to proteins falling into either category. As a result, these methods are not optimally tailored to the needs of investigators searching for secreted proteins because they must separate the secreted "wheat" from the non-secreted "chaff", wasting effort and resources in the process.

Co-assigned U.S. Patent No. 5,536,637, which is incorporated herein by reference, provides methods for focusing genomic sequencing efforts on sequences encoding the secreted proteins which are of most interest for identification of protein therapeutics. The '637 patent discloses a "signal sequence trap" which selectively identifies ESTs for secreted

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proteins, namely "secreted expressed sequence tags" or "sESTs". It is to these sESTs that the present invention is directed.

SUMMARY OF THE INVENTION

The present invention provides for sESTs isolated from a variety of human RNA/cDNA sources.

In preferred embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID 10 NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ 15 ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ 20 ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ 25 ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, 30 SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127,

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or a complement of said sequence.

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In other embodiments, the present invention provides an isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:30, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:66, SEQ ID NO:6

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           NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;
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or a complement of said sequence.

In further embodiments, the present invention provides an isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEO ID NO:17, SEO ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEO ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEO ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEO ID NO:110, SEO ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEO ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163,

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or a complement of said sequence.

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In yet other embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEO ID NO:12, SEO ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100,

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          NO:1501, SEQ ID NO:1502, SEQ ID NO:1503, SEQ ID NO:1504, SEQ ID
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          NO:1513, SEQ ID NO:1514, SEQ ID NO:1515, SEQ ID NO:1516, SEQ ID
          NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;
```

25 or to a complement of said sequence.

The invention also provides for proteins encoded by the above-described polynucleotides.

DETAILED DESCRIPTION

The nucleotide sequences of the sESTs of the present invention are reported in the Sequence Listing below. Table 2 lists the "Clone ID Nos." assigned by applicants to each SEQ ID NO: in the Sequence Listing.

Table 2

Each pair of entries in this table consists of the SEQ ID NO (e.g., 1, 2, etc.) followed by the Clone ID No. for such sequence (e.g., B11, B18, etc.).

		followed by th	e Clone	ID No. for su	cn sequen	ce (e.g., BII	, B18, etc.).	
	1	BK8	32		62	DY307	93	DY611
5	2	BV216	DW10	01	63	DY643	94	EC259
	3	BV274	33	DW831	64	DY656	95	DY711
	4	BV48	34	DW859	65	DY675	96	EC248
	5	DN351	35	DW875	66	DY988	97	EC32
	6	DN381	36	DW888	67	DY992	98	DO703
10	7	DN405	37	DW901	68	DY225	99	DO713
	8	DU651 .	38	DW902	69	DY236	100	DR294
	9	DU660	39	DW904	70	DY242	101	DY1
	10	DU675	40	DW905	71	DY254	102	DY10
	11	DU684	41	DW906	72	DY914	103	DY 106
15	12	DD364	42	DW929	73	DY946	104	DY117
	13	DD379	43	DW981	74	DY955	105	DY148
	14	DD389	44	DX191	75	DY959	106	DY 167
	15	DD401	45	DX219	76	DY961	107	DY17
	16	DD413	46	DX245	77	DY981	108	DY174
20	17	DD426	47	DX256	78	DY357	109	DY 175
	18	DD428	48	DX267	79	DY358	110	DY178
	19	DN293	49	DX66	80	DY381	111	DY23
	20	DD454	50	DX81	81	DY413	112	DY27
	21 -	DD472	51	DY780	82	DY414	113	D Y 41
25	22	DD475	52	DY803	83	DY415	114	DY42
	23	DT306	53	DY809	84	DY431	115	DY8
	24	DW282	54	DY814	85	DY.433	116	DY93
	25	DW300	55	DY261	86	DY436	117	EB107
	26	DW303	56	DY264	87	DY543	118	EB113
30	27	DW323	57	DY266	88	DY565	119	EB163
	28	DT258	58	DY271	89	DY585	120	EB25
	29	DW246	59	DY287	90	DY331	121	E B 77
	30	DW324	60	DY297	91	DY586	122	EC172
	31	DW333	61	DY306	92	DY696	123	EC302

	124	EC317	158	EJ90		192	EJ224	226	EP378
	125	EC328	159	EM270		193	EJ240	227	EP38
	126	EC341	160	EM278		194	EJ254	228	EO109
	127	EC349	161	EN186		195	EJ258	229	EO120
5	128	ED105	162	EN215		196	EJ265	230	EQ166
	129	ED21	163	EN217		197	EJ280	231	EQ187
	130	ED23	164	EN234		198	EJ285	232	EQ188
	131	ED30	165	EN239		199	EJ307	233	EQ190
	132	ED43	166	EN256		200	EJ38	234	EQ194
10	133	ED54	167	EN260		201	DO235	235	EQ207
	134	EE177	168	EN264		202	DO238	236	EQ208
	135	EE65	169	EN266		203	DO263	237	EQ214
	136	DQ365	170	EN271		204	DO319	238	EQ215
	137	DK393	171	EN274		205	EJ324	239	EQ218
15	138	DK399	172	EN287		206	EN470	240	EQ219
	139	DO1128	173	EN310		207	EN477	241	EQ220
	140	DO1150	174	EN342		208	EN539	242	EQ221
	141	DZ34	175	EN363		209	EP451	243	EQ226
	142	DZ42	176	EN423		210	EO10	244	EQ229
20	143	EE116	177	EH106		211	EO14	245	EQ230
	144	EE93	178	EH145	1	212	EO48	246	EQ231
	145	DJ387	179	EH166		213	EO58	247	EQ233
	146	DJ402	180	EH167		214	EO60	248	EQ237
	147	DN551	181	EH178		215	EO62	249	EQ261
25	148	DN559	182	EH180		216	EO68	250	EQ272
	149	DN603	183	EH186		217	EO89	251	ER104
	150	DN629	184	EH188		218	EO90	252	ER106
	151	DN631	185	EH189		219	EO92	253	ER128
	152	DO11	186	EH190		220	EO97	254	ER134
30	153	DO118	187	EH203		221	EP108	255	ER174
	154	DO15	188	EH206		222	EP165	256	ER201
	155	DO157	189	EH95		223	EP219	257	ER77
	.156	DO19	190	EJ148		224	EP234	258	ER80
	157	EJ53	191	EJ179		225	EP277	259	ER97

	260	ES136	294	ER399	328	FB264	362	FG208
	261	ES306	295	ER408	329	FB38	363	FG265
	262	ES35	296	ER418	330	FB71	364	FG274
	263	ES37	297	ER430	331	FB78	365	FG278
5	264	ES206	298	ER471	332	FC12	366	FG281
	265	ET13	299	ER476	333	FB349	367	FG291
	266	ET22	300	ER493	334	FC136	368	FG294
	267	ET39	301	ER496	335	FC170	369	FG340
	268	ET84	302	ER498	336	FD152	370	FG363
10	269	EF121	303	ER524	337	FE141	371	FG372
	270	EF129	304	EW13	338	FE5	372	FG380
	271	EF45	305	EX25	339	FD131	373	FG401
	272	EF48	306	EX53	340	EC425	374	FG99
•	273	EF5	307	EY165	341	EC428	375	FI203
15	274	EF88	308	EY29	342	ED204	376	FE311
	275	EG194	309	EZ35	343	ED205	377	FE315
	276	EG251	310	EZ4	344	ED210	378	FE322
	277	EH12	311	EZ88	345	ED223	379	FE329
	278	EH213	312	EZ93	346	DI301	380	FE341
20	279	EH22	313	FA8	347	DI303	381	FE366
	280	EH221	314	EV234	348	DI310	382	FE375
	281	EH248	315	EW101	349	DI39	383	FE412
	282	EH29	316	EW109	350	DJ90	384	FE415
	283	EH61	317	EW150	351	DM290	385	FE442
25	284	EH68	318	EY197	352	DM304	386	FE472
	285	EH78	319	EY206	353	DN618	387	FE557
	286	EH80	320	EY215	354	DN896	388	FE568
	287	ER311	321	EZ209	355	DN904	389	FE619
	288	ER329	322	FA139	356	FG119	390	FE676
30	289	ER343	323	FA171	357	FG126	391	FE682
	290	ER366	324	FA252	358	FG140	392	FF150
	291	ER369	325	FA28	359	FG193	393	FF153
	292	ER381	326	FA316	360	FG197	394	FF168
	293	ER395	327	FA95	361	FG198	395	FF175

	396	FF181	430	FH17	464	FN203	498	FO201
	397	FF46	431	FH170	465	FN228	499	FO209
	398	FF49	432	FH24	466	FN229	500	FO211
	399	FF97	433	FH3	467	FN251	501	FO215
5	400	FG41	434	FH39	468	FN254	502	FO253
	401	FG437	435	FH56	469	FP134	503	FO254
	402	FG441	436	FH6	470	FP14	504	FO261
	403	FG448	437	FH66	471	FP163	505	FO267
	404	FG45	438	FM109	472	FP172	506	FO275
10	405	FG492	439	FM13	473	FP71	507	FO290
	406	FG504	440	FM15	474	FP87	508	FO292
	407	FG565	441	FM150	475	E1118	509	FO316
	408	FG567	442	FM170	476	EI16	510	FO324
	409	FG57	443	FM28	477	EI187	511	FO327
15	410	FG577	444	FM3	478	EI203	512	FO348
	411	FG615	445	FM32	479	EI228	513	FO36
	412	FG625	446	FM36	480	EI231	514	FO38
	413	FG630	447	FM60	481	E1236	515	FO40
	414	FG659	448	FM86	482	EI239	516	FO66
20	415	FG708	449	FM95	483	EI243	517	FO75
	416	FG91	450	FM98	484	EI250	518	FP185
	417	FG884	451	FM99	485	EI255	519	FP193
	418	FG891	452	FN172	486	EI264	520	FP233
	419	FG909	453	FN19	487	EI273	521	FP239
25	420	FG912	454	FN29	488	FO11	522	FP246
	421	FG949	455	FN53	489	FO125	523	FP262
	422	FG952	456	FK199	490	FO128	524	FP268
	423	FG965	457	FK217	491	FO133	525	FP271
	424	FH10	458	FK23	492	FO135	526	FP273
30	425	FH116	459	FK32	493	FO147	527	FQ505
	426	FH123	460	FK59	494	FO152	528	DN647
	427	FH13	461	FK78	495	FO160	529	DN650
	428	FH136	462	FN189	496	FO173	530	DN676
	429	FH149	463	FN191	497	FO182	531	DO94

	532	FR292	566	DN827	600	FY201	634	DU4
	533	FR436	567	DN833	601	FY202	635	DU75
	534	FR451	568	DN834	602	FY243	636	FY386
	535	FR473	569	DN850	603	FY265	637	FY388
5	536	FS10	570	DO913	604	FY316	638	FY398
	537	FS106	571	DO923	605	FY318	639	FY414
	538	FS107	572	DO935	606	FY321	640	GA48
	539	FS143	573	DO938	607	FY354	641	GA63
	540	FS173	574	DO944	608	FY356	642	GA64
10	541	FS28	575	DO949	609	FY421	643	DT382
	542	FS31	576	DO952	610	FY430	644	DT385
	543	FS40	577	DQ12	611	FY455	645	DT388
	544	FV35	578	DT2	612	FY484	646	DT464
	545	FV49	579	DT44	613	FY524	647	DT470
15	546	FV68	580	DT53	614	FY530	648	DT478
	547	FW13	581	DT8	615	FY628	649	DT482
	548	FW64	582	FQ661	616	DQ242	650	DU114
	549	FY127	583	FQ672	617	DQ262	651	DUI18
	550	FY136	584	FQ696	618	DQ276	652	DU123
20	551	FY60	585	FR1087	619	DQ285	653	DU133
	552	FY65	586	FR927	620	DQ304	654	DU156
	553	FY72	587	FR938	621	DQ313	655	DU157
	554	DN1112	588	FR980	622	DQ51	656	FZ5
	555	DN1118	589	FV122	623	DQ54	657	FZ87
25	556	DN1122	590	FV131	624	DR628	658	DW181
	557	DN782	591	FV132	625	GU215	659	DW309
	558	DN793	592	FV84	626	FM481	660	DXI
	559	DN795	593	FV85	627	DT117	661	DX15
	560	DN806	594	FV95	628	DT133	662	DX19
30	561	DN809	595	FX115	629	DT139	663	DX22
	562	DN810	596	FX127	630	DT164	664	DX29
	563	DN814	597	FX154	631	DU160	665	DX3
	564	DN815	598	FY187	632	DU164	666	DX4
	565	DN823	599	FY199	633	DU166	667	FZ428

	668	FZ163	702	FZ209	736	GE89	770	GF151
	669	DY474	703	FZ254	737	DY516	771	GF179
	670	FZ139	704	FZ346	738	DY529	772	GF99
	671	FX76	705	GA82	739	DY530	773	GB261
5	672	FX65	706	GA85	740	DY538	774	GC499
	673	FX55	707	GA91	741	DY830	775	GD177
	674	DU536	708	DX299	742	DY857	776	GD7
	675	FZ534	709	DX304	743	EA17	7 77	GE300
	676	DU515	710	DX309	744	EA36	778	DX179
10	677	DU475	711	DX316	745	GG73	779	DY757
	678	DU462	712	DX328	746	DU544	780	EC392
	679	DU353	713	DX336	747	DU560	781	EE15
	680	DU341	714	DX354	748	DZ109	782	DU408
	68 l	DU306	715	DX357	749	EA105	783	DU410
15	682	DU278	716	DX359	750	EA106	784	DU416
	683	DU244	717	DX363	751	EA110	785	DU447
	684	DU238	718	DX364	752	EA123	786	DX111
	685	DU236	719	DY478	753	EA46	787	DX112
	686	DU231	720	DY497	754	EA58	788	DX123
20	687	FZ639	721	DY508	755	EA7	789	DX138
	688	GC456	722	EA89	756	EA82	790	DX146
	689	GG126	723	EA9	757	GE361	791	DX153
	690	GG129	724	EA90	758	FZ510	792	DX157
	691	GG152	725	GC52	759	GE387	793	EE4
25	692	GG170	726	GC57	760	GE410	794	FZ676
	693	GG182	727	GC585	761	GE463	795	FZ683
	694	GG217	728	GC74	762	GE466	796	GD309
	695	GG440	729	GE28	763	GE468	797	GD358
	696	GG619	730	GE41	764	GE471	798	GG543
30	697	DX279	731	GE51	765	GE524	799	FX516
	698	DX288	732	GE60	766	GE539	800	FX536
	699	DX290	733	GE68	767	GE548	801	FZ1032
	700	DX295	734	GE80	768	GE549	802	FZ1041
	701	DX298	735	GE82	769	GE99	803	FZ1072

	804	FZ781	838	DD12	872	GP304	906	EM40
	805	GA147	839	DD127	873	GP329	907	EM42
	806	GA284	840	DD177	874	GP338	908	EM58
	807	DY723	841	DD204	875	GP340	909	GF185
5	808	DY737	842	DD207	876	GQ13	910	GF187
	809	DY739	843	DD211	877	GQ18	911	GF196
	810	EC399	844	DD217	878	GQ22	912	GF197
	811	EM254	845	DD504	879	GQ38	913	GF207
	812	FX194	846	DD509	880	GQ40	914	GF209
10	813	FX234	847	DD518	881	GQ56	915	GF212
	814	FX281	848	DD537	882	GQ6	916	GF218
	815	FX317	849	DD541	883	DD312	917	GF221
	816	FX353	850	DD71	884	DD352	918	GF222
	817	FX395	851	DH941	885	EK145	919	GF250
15	818	GA293	852	DQ194	886	EK208	920	GF255
	819	GA321	853	DQ204	887	EK223	921	GF256
	820	GA327	854	DQ215	888	EK234	922	GI28
	821	GB160	855	DQ216	889	EK480	923	GI3
	822	GA132	856	EK423	890	EK491	924	G130
20	823	GA135	857	EK424	891	EK499	925	GI51
	824	GA205	858	EK450	892	EK571	926	G163
	825	GB814	859	EL15	893	EK578	927	G17
	826	GF87	860	DD285	894	EK581	928	G174
	827	GG687	861	EK598	895	EK591	929	G188
25	828	GG692	862	EK622	896	DD215	930	G19
	829	GG694	863	EK626	897	EK634	931	DY874
	830	GG702	864	EK649	898	EL358	932	DY886
	831	GG705	865	GO653	899	EL360	933	DY900
	832	GP23	866	GP107	900	EL387	934	EM358
30	833	GP56	867	GP123	901	EL391	935	EM381
	834	GP61	868	GP168	902	EM111	936	EM386
	835	GP65	869	GP232	903	EM112	937	EM388
	836	DD115	870	GP274	904	EM12	938	EM396
	837	DD119	871	GP297	905	EM125	939	EM397

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	940	EM401	974	GT43	1008	HU212	1042	EY290
	941	EM406	975	GT6	1009	HU141	1043	EY304
	942	EM408	976	HR712	1010	HS555	1044	EY313
	943	EM409	977	HR704	1011	HR95	1045	FK295
5	944	EM423	978	HR693	1012	HR906	1046	FK301
	945	EM424	979	HR628	1013	HR76	1047	FK317
	946	FE196	980	HR605	1014	HR753	1048	FK328
	947	FE204	981	EK341	1015	HR731	1049	FK349
	948	FE205	982	EK390	1016	EN116	1050	FK350
10	949	FE207	983	EN108	1017	EM341	1051	FK354
	950	FE215	984	FK235	1018	FJ283	1052	FK365
	951	FE222	985	GK428	1019	FJ307	1053	FQ105
	952	FE227	986	GT56	1020	FJ70	1054	FQ239
	953	,FE228	987	FQ562	1021	FM176	1055	FQ360
15	954	FE248	988	FQ605	1022	FM197	1056	FQ45
	955	FE263	989	FQ608	1023	FM205	1057	GU353
	956	FE271	990	FQ609	1024	FM208	1058	GX167
	957	GF296	991	FQ612	1025	FM229	1059	GX183
	958	GN38	992	FS49	1026	FQ419	1060	GX208
20	959	GN45	993	FS87	1027	GX48	1061	GX210
	960	GN60	994	GM101	1028	GX5	1062	FM369
	961	GN68	995	GM103	1029	GX92	1063	FM375
	962	GN82	996	GM114	1030	FM289	1064	FM389
	963	GR286	997	GM129	1031	FM290	1065	FM432
25	964	EN10	998	GM153	1032	FM296	1066	FM459
	965	EN37	999	GM158	1033	FM300	1067	FM462
	966	FK127	1000	GM196	1034	FM312	1068	FM479
	967	FK151	1001	GM243	1035	GU512	1069	GX301
	968	GS26	1002	GM259	1036	GU534	1070	GX336
30	969	GS4	1003	GM266	1037	GU608	1071	GX354
	970	EV391	1004	HV38	1038	GX159	1072	GX361
	971.	FG535	1005	HV23	1039	GX97	1073	GX403
	972	FG852	1006	HV199	1040	EW304	1074	GX408
	973	GT28	1007	HV181	1041	EY281	1075	GX418

	1076	GU830	1110	GG3	1144	GN97	1178	HE91
	1077	GU925	1111	HA510	1145	HB443	1179	HF289
	1078	GU940	1112	HA422	1146	HC324	1180	HG444
	1079	GX1031	1113	HA382	1147	HC327	1181	HF137
5	1080	GX496	1114	HA360	1148	HC505	1182	HD706
	1081	GX504	1115	HA249	1149	HC724	1183	HG710
	1082	GX509	1116	HA199	1150	HA1054	1184	HG733
	1083	GX536	1117	HA192	1151	HB1041	1185	HG775
	1084	GX540	1118	GZ568	1152	HB746	1186	HI222
10	1085	GX645	1119	GY520	1153	HB752	1187	HI39
	1086	GX700	1120	GY515	1154	HB975	1188	HH215
	1087	GX730	1121	GY330	1155	HC705	1189	HH357
	1088	GX750	1122	GY307	1156	HA791	1190	HH372
	1089	GX753	1123	HA81	1157	HC1002	1191	HH378
15	1090	GX760	1124	HA73	1158	HC1071	1192	HH390
	1091	GX814	1125	HA29	1159	HC1089	1193	HH396
	1092	GX851	1126	HA24	1160	HC831	1194	HH404
	1093	GX909	1127	HA18	1161	HC986	1195	HH433
	1094	GY102	1128	GZ78	1162	GY72	1196	HI2
20	1095	GY105	1129	GZ70	1163	HG159	1197	HH544
	1096	GY138	1130	GZ7	1164	HG620	1198	HH608
	1097	GY211	1131	GZ496	1165	HD161	1199	HH612
	1098	GX1082	1132	GZ495	1166	HD353	1200	HH625
	1099	GX1108	1133	GZ485	1167	HD378	1201	HH640
25	1100	GX1140	1134	GZ436	1168	HD417	1202	HH648
	1101	GX1165	1135	GZ420	1169	HD427	1203	HH691
	1102	GX576	1136	GZ378	1170	HD434	1204	HJ120
	1103	GX595	1137	GZ37	1171	HD499	1205	HJ140
	1104	GX606	1138	GY558	1172	HD569	1206	HJ181
30	1105	GX619	1139	GG894	1173	HD627	1207	HJ184
	1106	GG874	1140	GG907	1174	HD648	1208	HJ22
	1107	GG858	1141	GN114	1175	HE111	1209	HJ253
	1108	GG836	1142	GN115	1176	HE142	1210	HJ265
	1109	GG8	1143	GN145	1177	HE178	1211	HJ362

	1212	HJ395	1246	HM372	1280	HO722	1314	HT166
	1213	HJ411	1247	HM380	1281	HO799	1315	HT176
	1214	HJ444	1248	HM422	1282	HO801	1316	HT193
	1215	HJ65	1249	HM444	1283	HO817	1317	HT43
5	1216	HJ674	1250	HM497	1284	HO82	1318	HT81
	1217	HJ705	1251	HM544	1285	HK719	1319	HW149
	1218	HJ81	1252	HM643	1286	HO1077	1320	HW152
	1219	HJ862	1253	HN72	1287	HO1080	1321	HW190
	1220	HJ949	1254	HN78	1288	HO1087	1322	HW204
10	1221	HK10	1255	HO107	1289	HO1143	1323	HW221
	1222	HK26	1256	HO237	1290	HO1176	1324	HW243
	1223	HK60	1257	HO266	1291	HO1183	1325	HW261
	1224	HJ1037	1258	HO277	1292	HO1216	1326	HW368
	1225	HJ968	1259	HO283	1293	HO1271	1327	HW74
15	1226	HJ981	1260	HO292	1294	HO1329	1328	HX10
	1227	HJ994	1261	HO294	1295	HO1434	1329	HX102
	1228	HJ995	1262	HO305	1296	HO1441	1330	HX110
	1229	HK189	1263	HO315	1297	HO1453	1331	HX113
	1230	HK234	1264	HO332	1298	HO854	1332	HX155
20	1231	HK650	1265	HO358	1299	HO868	1333	HX188
	1232	HK658	1266	HO476	1300	HP262	1334	HX29
	1233	HK669	1267	HO481	1301	HQ36	1335	HX50
	1234	HK713	1268	HO502	1302	HQ72	1336	HY13
	1235	HK899	1269	HO54	1303	GM16	1337	HY3
25	1236	HE187	1270	HO60	1304	GM286	1338	HY55
	1237	HK162	1271	HO600	1305	GM295	1339	HY57
	1238	HL25	1272	HO617	1306	GM335	1340	HZ15
	1239	HL380	1273	HO640	1307	GM365	1341	HZ8
	1240	HL73	1274	HO663	1308	HR397	1342	IAI
30	1241	HM50	1275	HO688	1309	HR560	1343	IA21
	1242	HM54	1276	HO692	1310	HR593	1344	1A32
	1243	HM91	1277	HO693	1311	HR598	1345	IA36
	1244	HM236	1278	HO703	1312	HT13	1346	IB2
	1245	HM280	1279	HO717	1313	HT137	1347	IC2

	1348	IC9	1382	IA167	1413	HW786	1447	1E362
	1349	HY229	1383	IA183	1414	HW810	1448	IH32
	1350	HY244	1384	IA188	1415	HW846	1449	11113
	1351	HY344	1385	IA200	1416	HW849	1450	IJ101
5	1352	HY370	1386	IA220	1417	1B15	1451	IJ163
	1353	HY374	1387	IA64	1418	IB19	1452	IJ167
	1354	HY404	1388	IA69	1419	IB22	1453	IF28
	1355	HY419	1389	IA86	1420	1B28	1454	IF376
	1356	HY435	1390	HW936	1421	1B36	1455	IF456
10	1357	HZ103	1391		1422	IB49	1456	IF87
	1358	HZ109	HW10	17	1423	IC103	1457	IJ1201
	1359	HZ111	1392		1424	IC126	1458	IJ1220
	1360	HZ115	HW10	44	1425	IC132	1459	IJ1237
	1361	HZ71	1393		1426	IC142	1460	IJ1240
15	1362	HZ76	HW10	59	1427	IC155	1461	IJ1247
	1363	HZ88	1394	HW430	1428	IC54	1462	IJ1287
	1364	HW115	1395	HW432	1429	IC87	1463	IJ1292
	1365	HW128	1396	HW440	1430	IC92	1464	IJ1299
	1366	HW477	1397	HW456	1431	IE146	1465	IJ583
20.	1367	HW483	1398	HW518	1432	IE147	1466	1J592
	1368	HW491	1399	HW591	1433	IE149	1467	IJ597
	1369	HW499	1400	HW598	1434	IE169	1468	1J629
	1370	HW507	1401	HW627	1435	IZ6	1469	IJ638
	1371	HZ116	1402	HW646	1436	JE33	1470	IJ640
25	1372	HZ162	1403	HW649	1437	JE44	1471	1J642
	1373	HZ185	1404	HW693	1438	JE52	1472	IJ686
	1374	HZ201	1405	HW695	1439	IE10	1473	IG25
	1375	HZ224	1406	HW697	1440	IE47	1474	IG35
	1376	HZ262	1407	HW711	1441	IE73	1475	1H40
30	1377	IA106	1408	HW715	1442	JA37	1476	IH54
	1378	IA110	1409	HW730	1443	JA78	1477	IJ288
	1379	IA114	1410	HW732	1444	JB12	1478	IJ76
	1380	IA153	1411	HW741	1445	JB23	1479	IF292
	1381	IA157	1412	HW750	1446	IE352	1480	IF513

	1481	IF548	1515	1Q58
	1482	1J1043	1516	1S488
	1483	IJ1048	1517	IS564
	1484	IJ1054	1518	IT23
5	1485	IJ1088	1519	IT44
	1486	1J777		
	1487	IJ887		
	1488	IJ907		
	1489	IJ928		
10	1490	1J942		
	1491	IL1		
	1492	IL100		
	1493	IL112		
	1494	IL28		
15	1495	IK11		
	1496	IK14		
	1497	IK20		
	1498	IK203		
	1499	IK209	`	
20	1500	IK212		
	1501	IK343		
	1502	IK73		
	1503	IO134		
	1504	10138		
25	1505	IO151		
	1506	10202		
	1507	IO209		
	1508	IO31		
	1509	10356		
30	1510	IO420		
	1511	1062		
	1512	IQ15		
	1513	IQ45		
	1514	IQ55		

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The "Clone ID No." for a particular clone consists of one or two letters followed by a number. The letters designate the tissue source from which the sEST was isolated. Table 3 below lists the various sources which were run through applicants' signal sequence trap. Thus, the tissue source for a particular sEST sequence can be identified in Table 3 by the one and two letter designations used in the relevant "Clone ID No.". For example, a clone designated as "BA312" would have been isolated from a human placenta (26 yrs.) library (i.e., selection "BA") as indicated in Table 3.

As used herein, "polynucleotide" includes single- and double-stranded RNAs, DNAs and RNA:DNA hybrids.

As used herein a "secreted" protein is one which, when expressed in a suitable host cell, is transported across or through a membrane, including transport as a result of signal sequences in its amino acid sequence. "Secreted" proteins include without limitation proteins secreted wholly (e.g., soluble proteins) or partially (e.g., receptors) from the cell in which they are expressed. "Secreted" proteins also include without limitation proteins which are transported across the membrane of the endoplpasmic reticulum.

Fragments of the proteins of the present invention which are capable of exhibiting biological activity are also encompassed by the present invention. Fragments of the protein may be in linear form or they may be cyclized using known methods, for example, as described in H.U. Saragovi, et al., Bio/Technology 10, 773-778 (1992) and in R.S. McDowell, et al., J. Amer. Chem. Soc. 114, 9245-9253 (1992), both of which are incorporated herein by reference. Such fragments may be fused to carrier molecules such as immunoglobulins for many purposes, including increasing the valency of protein binding sites. For example, fragments of the protein may be fused through "linker" sequences to the Fc portion of an immunoglobulin. For a bivalent form of the protein, such a fusion could be to the Fc portion of an IgG molecule. Other immunoglobulin isotypes may also be used to generate such fusions. For example, a protein - IgM fusion would generate a decayalent form of the protein of the invention.

The present invention also provides both full-length and mature forms of the disclosed proteins. The full-length form of the such proteins is identified in the sequence listing by translation of the nucleotide sequence of each disclosed clone. The mature form of such protein may be obtained by expression of the disclosed full-length polynucleotide (preferably those deposited with ATCC) in a suitable mammalian cell or other host cell. The sequence of the mature form of the protein may also be determinable from the amino acid sequence of the full-length form.

The present invention also provides genes corresponding to the cDNA sequences disclosed herein. The corresponding genes can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include the preparation of probes or primers from the disclosed sequence information for identification and/or amplification of genes in appropriate genomic libraries or other sources of genomic materials.

Where the protein of the present invention is membrane-bound (e.g., is a receptor), the present invention also provides for soluble forms of such protein. In such forms part or all of the intracellular and transmembrane domains of the protein are deleted such that the protein is fully secreted from the cell in which it is expressed. The intracellular and transmembrane domains of proteins of the invention can be identified in accordance with known techniques for determination of such domains from sequence information.

Species homologs of the disclosed polynucleotides and proteins are also provided by the present invention. Species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source from the desired species.

The invention also encompasses allelic variants of the disclosed polynucleotides or proteins; that is, naturally-occurring alternative forms of the isolated polynucleotide which also encode proteins which are identical, homologous or related to that encoded by the polynucleotides disclosed herein.

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The invention also includes polynucleotides with sequences complementary to those of the polynucleotides disclosed herein.

The present invention also includes polynucleotides capable of hybridizing, preferably under reduced stringency conditions, more preferably under stringent conditions, most preferably under highly stringent conditions, to polynucleotides described herein. Examples of stringency conditions are shown in Table 1 below: highly stringent conditions are those that are at least as stringent as, for example, conditions A-F; stringent conditions are at least as stringent as, for example, conditions G-L; and reduced stringency conditions are at least as stringent as, for example, conditions M-R.

Table 1

	Stringenc y Condition	Polynucleotide Hybrid	Hybrid Length (bp)‡	Hybridization Temperature and Buffer [†]	Wash Temperature and Buffer [†]
5	A	DNA:DNA	≥ 50	65°C; 1xSSC -or- 42°C; 1xSSC, 50% formamide	65°C; 0.3xSSC
	В	DNA:DNA	< 50	T _B *; 1xSSC	T _B *; 1xSSC
	С	DNA:RNA	≥ 50	67°C; 1xSSC -or- 45°C; 1xSSC, 50% formamide	67°C; 0.3xSSC
	Ď	DNA:RNA	< 50	T _D *; 1xSSC	T _D *; 1xSSC
	E	RNA:RNA	≥ 50	70°C; 1xSSC -or- 50°C; 1xSSC, 50% formamide	70°C; 0.3xSSC
10	F	RNA:RNA	< 50	T _F *; 1xSSC	T _F *; 1xSSC
	G ·	DNA:DNA	≥ 50	65°C; 4xSSC -or- 42°C; 4xSSC, 50% formamide	65°C; 1xSSC
	Н	DNA:DNA	< 50	T _H *; 4xSSC	T _H *; 4xSSC
	I	DNA:RNA	≥ 50	67°C; 4xSSC -or- 45°C; 4xSSC, 50% formamide	67°C; 1xSSC
15	J	DNA:RNA	< 50	T _J *; 4xSSC	T,*; 4xSSC
	К	RNA:RNA	≥ 50	70°C; 4xSSC -or- 50°C; 4xSSC, 50% formamide	67°C; 1xSSC
	L	RNA:RNA	< 50	T _L *; 2xSSC	T _L *; 2xSSC
	М	DNA:DNA	≥ 50	50°C; 4xSSC -or- 40°C; 6xSSC, 50% formamide	50°C; 2xSSC
20	N	DNA:DNA	< 50	T _N *; 6xSSC	T _N *; 6xSSC
	0	DNA:RNA	≥ 50	55°C; 4xSSC -or- 42°C; 6xSSC, 50% formamidc	55°C; 2xSSC
	P	DNA:RNA	< 50	T _p *; 6xSSC	T _p *; 6xSSC
	Q	RNA:RNA	≥ 50	60°C; 4xSSC -or- 45°C; 6xSSC, 50% formamide	60°C; 2xSSC
	R	RNA:RNA	< 50	T _R *; 4xSSC	T _R *; 4xSSC

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†: The hybrid length is that anticipated for the hybridized region(s) of the hybridizing polynucleotides. When hybridizing a polynucleotide to a target polynucleotide of unknown sequence, the hybrid length is assumed to be that of the hybridizing polynucleotide. When polynucleotides of known sequence are hybridized, the hybrid length can be determined by aligning the sequences of the polynucleotides and identifying the region or regions of optimal sequence complementarity.

[†]: SSPE (1xSSPE is 0.15M NaCl, 10mM NaH₂PO₄, and 1.25mM EDTA, pH 7.4) can be substituted for SSC (1xSSC is 0.15M NaCl and 15mM sodium citrate) in the hybridization and wash buffers; washes are performed for 15 minutes after hybridization is complete.

* T_B - T_R : The hybridization temperature for hybrids anticipated to be less than 50 base pairs in length should be 5-10°C less than the melting temperature (T_m) of the hybrid, where T_m is determined according to the following equations. For hybrids less than 18 base pairs in length, T_m (°C) = 2(# of A + T bases) + 4(# of G + C bases). For hybrids between 18 and 49 base pairs in length, T_m (°C) = 81.5 + 16.6($\log [Na^+]$) + 0.41(%G+C) - (600/N), where N is the number of bases in the hybrid, and [Na⁺] is the concentration of sodium ions in the hybridization buffer ([Na⁺] for 1xSSC = 0.165 M).

Additional examples of stringency conditions for polynucleotide hybridization are provided in Sambrook, J., E.F. Fritsch, and T. Maniatis, 1989, *Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, chapters 9 and 11, and *Current Protocols in Molecular Biology*, 1995, F.M. Ausubel et al., eds., John Wiley & Sons, Inc., sections 2.10 and 6.3-6.4, incorporated herein by reference.

Preferably, such hybridizing polynucleotides have at least 70% sequence identity (more preferably, at least 80% identity; most preferably at least 90% or 95% identity) with the polynucleotide of the present invention to which they hybridize, where sequence identity is determined by comparing the sequences of the hybridizing polynucleotides when aligned so as to maximize overlap and identity while minimizing sequence gaps. The sociated polynucleotide encoding the protein of the invention may be operably linked to an expression control sequence such as the pMT2 or pED expression vectors disclosed in Kaufman et al., Nucleic Acids Res. 19, 4485-4490 (1991), in order to produce the protein recombinantly. Many suitable expression control sequences are known in the art. General methods of expressing recombinant proteins are also known and are exemplified in R. Kaufman, Methods in Enzymology 185, 537-566 (1990). As defined herein "operably linked" means that the isolated polynucleotide of the invention and an expression control

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sequence are situated within a vector or cell in such a way that the protein is expressed by a host cell which has been transformed (transfected) with the ligated polynucleotide/expression control sequence.

A number of types of cells may act as suitable host cells for expression of the protein. Mammalian host cells include, for example, monkey COS cells, Chinese Hamster Ovary (CHO) cells, human kidney 293 cells, human epidermal A431 cells, human Colo205 cells, 3T3 cells, CV-1 cells, other transformed primate cell lines, normal diploid cells, cell strains derived from in vitro culture of primary tissue, primary explants, HeLa cells, mouse L cells, BHK, HL-60, U937, HaK or Jurkat cells.

Alternatively, it may be possible to produce the protein in lower eukaryotes such as yeast or in prokaryotes such as bacteria. Potentially suitable yeast strains include Saccharomyces cerevisiae, Schizosaccharomyces pombe, Kluyveromyces strains, Candida, or any yeast strain capable of expressing heterologous proteins. Potentially suitable bacterial strains include Escherichia coli, Bacillus subtilis, Salmonella typhimurium, or any bacterial strain capable of expressing heterologous proteins. If the protein is made in yeast or bacteria, it may be necessary to modify the protein produced therein, for example by phosphorylation or glycosylation of the appropriate sites, in order to obtain the functional protein. Such covalent attachments may be accomplished using known chemical or enzymatic methods.

The protein may also be produced by operably linking the isolated polynucleotide of the invention to suitable control sequences in one or more insect expression vectors, and employing an insect expression system. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, e.g., Invitrogen, San Diego, California, U.S.A. (the MaxBac® kit), and such methods are well known in the art, as described in Summers and Smith, Texas Agricultural Experiment Station Bulletin No. 1555 (1987), incorporated herein by reference. As used herein, an insect cell capable of expressing a polynucleotide of the present invention is "transformed."

The protein of the invention may be prepared by culturing transformed host cells under culture conditions suitable to express the recombinant protein. The resulting expressed protein may then be purified from such culture (i.e., from culture medium or cell extracts) using known purification processes, such as gel filtration and ion exchange chromatography. The purification of the protein may also include an affinity column containing agents which will bind to the protein; one or more column steps over such affinity resins as concanavalin A-agarose, heparin-toyopearl® or Cibacrom blue 3GA

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Sepharose®; one or more steps involving hydrophobic interaction chromatography using such resins as phenyl ether, butyl ether, or propyl ether; or immunoaffinity chromatography.

Alternatively, the protein of the invention may also be expressed in a form which will facilitate purification. For example, it may be expressed as a fusion protein, such as those of maltose binding protein (MBP), glutathione-S-transferase (GST) or thioredoxin (TRX). Kits for expression and purification of such fusion proteins are commercially available from New England BioLab (Beverly, MA), Pharmacia (Piscataway, NJ) and InVitrogen, respectively. The protein can also be tagged with an epitope and subsequently purified by using a specific antibody directed to such epitope. One such epitope ("Flag") is commercially available from Kodak (New Haven, CT).

Finally, one or more reverse-phase high performance liquid chromatography (RP-HPLC) steps employing hydrophobic RP-HPLC media, e.g., silica gel having pendant methyl or other aliphatic groups, can be employed to further purify the protein. Some or all of the foregoing purification steps, in various combinations, can also be employed to provide a substantially homogeneous isolated recombinant protein. The protein thus purified is substantially free of other mammalian proteins and is defined in accordance with the present invention as an "isolated protein."

The protein of the invention may also be expressed as a product of transgenic animals, e.g., as a component of the milk of transgenic cows, goats, pigs, or sheep which are characterized by somatic or germ cells containing a nucleotide sequence encoding the protein.

The protein may also be produced by known conventional chemical synthesis. Methods for constructing the proteins of the present invention by synthetic means are known to those skilled in the art. The synthetically-constructed protein sequences, by virtue of sharing primary, secondary or tertiary structural and/or conformational characteristics with proteins may possess biological properties in common therewith, including protein activity. Thus, they may be employed as biologically active or immunological substitutes for natural, purified proteins in screening of therapeutic compounds and in immunological processes for the development of antibodies.

The proteins provided herein also include proteins characterized by amino acid sequences similar to those of purified proteins but into which modification are naturally provided or deliberately engineered. For example, modifications in the peptide or DNA sequences can be made by those skilled in the art using known techniques. Modifications

of interest in the protein sequences may include the alteration, substitution, replacement, insertion or deletion of a selected amino acid residue in the coding sequence. For example, one or more of the cysteine residues may be deleted or replaced with another amino acid to alter the conformation of the molecule. Techniques for such alteration, substitution, replacement, insertion or deletion are well known to those skilled in the art (see, e.g., U.S. Patent No. 4,518,584). Preferably, such alteration, substitution, replacement, insertion or deletion retains the desired activity of the protein.

Other fragments and derivatives of the sequences of proteins which would be expected to retain protein activity in whole or in part and may thus be useful for screening or other immunological methodologies may also be easily made by those skilled in the art given the disclosures herein. Such modifications are believed to be encompassed by the present invention.

USES AND BIOLOGICAL ACTIVITY

The polynucleotides and proteins of the present invention are expected to exhibit one or more of the uses or biological activities (including those associated with assays cited herein) identified below. Uses or activities described for proteins of the present invention may be provided by administration or use of such proteins or by administration or use of polynucleotides encoding such proteins (such as, for example, in gene therapies or vectors suitable for introduction of DNA).

Research Uses and Utilities

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The polynucleotides provided by the present invention can be used by the research community for various purposes. The primary use of polynucleotides of the invention which are sESTs is as porbes for the identification and isolation of full-length cDNAs and genomic DNA molecules which correspond (i.e., is a longer polynucleotide sequence of which substantially the entire sEST is a fragment in the case of a full-length cDNA, or which encodes the sEST in the case of a genomic DNA molecule) to such sESTs. Techniques for use of such sequences as probes for larger cDNAs or genomic molecules are well known in the art.

The polynucleotides can also be used to express recombinant protein for analysis, characterization or therapeutic use; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in disease states); as molecular weight markers on Southern gels; as chromosome markers or tags (when labeled) to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridize and thus discover novel, related DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to "subtract-out" known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a "gene chip" or other support, including for examination of expression patterns; to raise antiprotein antibodies using DNA immunization techniques; and as an antigen to raise anti-DNA antibodies or elicit another immune response. Where the polynucleotide encodes a protein which binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the polynucleotide can also be used in interaction trap assays (such as, for example, that described in Gyuris et al., Cell 75:791-803 (1993)) to identify polynucleotides encoding the other protein with which binding occurs or to identify inhibitors of the binding interaction.

The proteins provided by the present invention can similarly be used in assay to determine biological activity, including in a panel of multiple proteins for high-throughput screening; to raise antibodies or to elicit another immune response; as a reagent (including the labeled reagent) in assays designed to quantitatively determine levels of the protein (or its receptor) in biological fluids; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in a disease state); and, of course, to isolate correlative receptors or ligand. Where the protein binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the protein can be used to identify the other protein with which binding occurs or to identify inhibitors of the binding interaction. Proteins involved in these binding interactions can also be used to screen for peptide or small molecule inhibitors or agonists of the binding interaction.

Any or all of these research utilities are capable of being developed into reagent grade or kit format for commercialization as research products.

Methods for performing the uses listed above are well known to those skilled in the art. References disclosing such methods include without limitation "Molecular Cloning: A Laboratory Manual", 2d ed., Cold Spring Harbor Laboratory Press, Sambrook, J., E.F. Fritsch and T. Maniatis eds., 1989, and "Methods in Enzymology: Guide to Molecular Cloning Techniques", Academic Press, Berger, S.L. and A.R. Kimmel eds., 1987.

Nutritional Uses

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Polynucleotides and proteins of the present invention can also be used as nutritional sources or supplements. Such uses include without limitation use as a protein or amino acid supplement, use as a carbon source, use as a nitrogen source and use as a source of carbohydrate. In such cases the protein or polynucleotide of the invention can be added to the feed of a particular organism or can be administered as a separate solid or liquid preparation, such as in the form of powder, pills, solutions, suspensions or capsules. In the case of microorganisms, the protein or polynucleotide of the invention can be added to the medium in or on which the microorganism is cultured.

Cytokine and Cell Proliferation/Differentiation Activity

A protein of the present invention may exhibit cytokine, cell proliferation (either inducing or inhibiting) or cell differentiation (either inducing or inhibiting) activity or may induce production of other cytokines in certain cell populations. Many protein factors discovered to date, including all known cytokines, have exhibited activity in one or more factor dependent cell proliferation assays, and hence the assays serve as a convenient confirmation of cytokine activity. The activity of a protein of the present invention is evidenced by any one of a number of routine factor dependent cell proliferation assays for cell lines including, without limitation, 32D, DA2, DA1G, T10, B9, B9/11, BaF3, MC9/G, M+ (preB M+), 2E8, RB5, DA1, 123, T1165, HT2, CTLL2, TF-1, Mo7e and CMK.

The activity of a protein of the invention may, among other means, be measured by the following methods:

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Assays for T-cell or thymocyte proliferation include without limitation those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Bertagnolli et al., J. Immunol. 145:1706-1712, 1990; Bertagnolli et al., Cellular Immunology 133:327-341, 1991; Bertagnolli, et al., J. Immunol. 149:3778-3783, 1992; Bowman et al., J. Immunol. 152: 1756-1761, 1994.

Assays for cytokine production and/or proliferation of spleen cells, lymph node cells or thymocytes include, without limitation, those described in: Polyclonal T cell stimulation, Kruisbeek, A.M. and Shevach, E.M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.12.1-3.12.14, John Wiley and Sons, Toronto. 1994; and Measurement of mouse and human Interferon γ, Schreiber, R.D. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.8.1-6.8.8, John Wiley and Sons, Toronto. 1994.

Assays for proliferation and differentiation of hematopoietic and lymphopoietic cells include, without limitation, those described in: Measurement of Human and Murine Interleukin 2 and Interleukin 4, Bottomly, K., Davis, L.S. and Lipsky, P.E. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.3.1-6.3.12, John Wiley and Sons, Toronto. 1991; deVries et al., J. Exp. Med. 173:1205-1211, 1991; Moreau et al., Nature 336:690-692, 1988; Greenberger et al., Proc. Natl. Acad. Sci. U.S.A. 80:2931-2938, 1983; Measurement of mouse and human interleukin 6 - Nordan, R. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.6.1-6.6.5, John Wiley

and Sons, Toronto. 1991; Smith et al., Proc. Natl. Acad. Sci. U.S.A. 83:1857-1861, 1986; Measurement of human Interleukin 11 - Bennett, F., Giannotti, J., Clark, S.C. and Turner, K. J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.15.1 John Wiley and Sons, Toronto. 1991; Measurement of mouse and human Interleukin 9 - Ciarletta, A., Giannotti, J., Clark, S.C. and Turner, K.J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.13.1, John Wiley and Sons, Toronto. 1991.

Assays for T-cell clone responses to antigens (which will identify, among others, proteins that affect APC-T cell interactions as well as direct T-cell effects by measuring proliferation and cytokine production) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function; Chapter 6, Cytokines and their cellular receptors; Chapter 7, Immunologic studies in Humans); Weinberger et al., Proc. Natl. Acad. Sci. USA 77:6091-6095, 1980; Weinberger et al., Eur. J. Immun. 11:405-411, 1981; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988.

Immune Stimulating or Suppressing Activity

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A protein of the present invention may also exhibit immune stimulating or immune suppressing activity, including without limitation the activities for which assays are described herein. A protein may be useful in the treatment of various immune deficiencies and disorders (including severe combined immunodeficiency (SCID)), e.g., in regulating (up or down) growth and proliferation of T and/or B lymphocytes, as well as effecting the cytolytic activity of NK cells and other cell populations. These immune deficiencies may be genetic or be caused by viral (e.g., HIV) as well as bacterial or fungal infections, or may result from autoimmune disorders. More specifically, infectious diseases causes by viral, bacterial, fungal or other infection may be treatable using a protein of the present invention, including infections by HIV, hepatitis viruses, herpesviruses, mycobacteria, Leishmania spp., malaria spp. and various fungal infections such as candidiasis. Of course, in this regard, a protein of the present invention may also be useful where a boost to the immune system generally may be desirable, *i.e.*, in the treatment of cancer.

Autoimmune disorders which may be treated using a protein of the present invention include, for example, connective tissue disease, multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation, Guillain-Barre

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syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitis, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. Such a protein of the present invention may also to be useful in the treatment of allergic reactions and conditions, such as asthma (particularly allergic asthma) or other respiratory problems. Other conditions, in which immune suppression is desired (including, for example, organ transplantation), may also be treatable using a protein of the present invention.

Using the proteins of the invention it may also be possible to immune responses, in a number of ways. Down regulation may be in the form of inhibiting or blocking an immune response already in progress or may involve preventing the induction of an immune response. The functions of activated T cells may be inhibited by suppressing T cell responses or by inducing specific tolerance in T cells, or both. Immunosuppression of T cell responses is generally an active, non-antigen-specific, process which requires continuous exposure of the T cells to the suppressive agent. Tolerance, which involves inducing non-responsiveness or anergy in T cells, is distinguishable from immunosuppression in that it is generally antigen-specific and persists after exposure to the tolerizing agent has ceased. Operationally, tolerance can be demonstrated by the lack of a T cell response upon reexposure to specific antigen in the absence of the tolerizing agent.

Down regulating or preventing one or more antigen functions (including without limitation B lymphocyte antigen functions (such as, for example, B7)), e.g., preventing high level lymphokine synthesis by activated T cells, will be useful in situations of tissue, skin and organ transplantation and in graft-versus-host disease (GVHD). For example, blockage of T cell function should result in reduced tissue destruction in tissue transplantation. Typically, in tissue transplants, rejection of the transplant is initiated through its recognition as foreign by T cells, followed by an immune reaction that destroys the transplant. The administration of a molecule which inhibits or blocks interaction of a B7 lymphocyte antigen with its natural ligand(s) on immune cells (such as a soluble, monomeric form of a peptide having B7-2 activity alone or in conjunction with a monomeric form of a peptide having an activity of another B lymphocyte antigen (e.g., B7-1, B7-3) or blocking antibody), prior to transplantation can lead to the binding of the molecule to the natural ligand(s) on the immune cells without transmitting the corresponding costimulatory signal. Blocking B lymphocyte antigen function in this matter prevents cytokine synthesis by immune cells, such as T cells, and thus acts as an immunosuppressant Moreover, the lack of costimulation may also be sufficient to anergize the T cells, thereby inducing tolerance in a subject. Induction of long-term tolerance by B lymphocyte antigen-

blocking reagents may avoid the necessity of repeated administration of these blocking reagents. To achieve sufficient immunosuppression or tolerance in a subject, it may also be necessary to block the function of a combination of B lymphocyte antigens.

The efficacy of particular blocking reagents in preventing organ transplant rejection or GVHD can be assessed using animal models that are predictive of efficacy in humans. Examples of appropriate systems which can be used include allogeneic cardiac grafts in rats and xenogeneic pancreatic islet cell grafts in mice, both of which have been used to examine the immunosuppressive effects of CTLA4Ig fusion proteins *in vivo* as described in Lenschow *et al.*, Science 257:789-792 (1992) and Turka *et al.*, Proc. Natl. Acad. Sci USA, 89:11102-11105 (1992). In addition, murine models of GVHD (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 846-847) can be used to determine the effect of blocking B lymphocyte antigen function *in vivo* on the development of that disease.

Blocking antigen function may also be therapeutically useful for treating autoimmune diseases. Many autoimmune disorders are the result of inappropriate activation of T cells that are reactive against self tissue and which promote the production of cytokines and autoantibodies involved in the pathology of the diseases. Preventing the activation of autoreactive T cells may reduce or eliminate disease symptoms. Administration of reagents which block costimulation of T cells by disrupting receptor:ligand interactions of B lymphocyte antigens can be used to inhibit T cell activation and prevent production of autoantibodies or T cell-derived cytokines which may be involved in the disease process. Additionally, blocking reagents may induce antigen-specific tolerance of autoreactive T cells which could lead to long-term relief from the disease. The efficacy of blocking reagents in preventing or alleviating autoimmune disorders can be determined using a number of well-characterized animal models of human autoimmune diseases. Examples include murine experimental autoimmune encephalitis, systemic lupus erythmatosis in MRL/lpr/lpr mice or NZB hybrid mice, murine autoimmune collagen arthritis, diabetes mellitus in NOD mice and BB rats, and murine experimental myasthenia gravis (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 840-856).

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Upregulation of an antigen function (preferably a B lymphocyte antigen function), as a means of up regulating immune responses, may also be useful in therapy. Upregulation of immune responses may be in the form of enhancing an existing immune response or eliciting an initial immune response. For example, enhancing an immune response through stimulating B lymphocyte antigen function may be useful in cases of viral

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infection. In addition, systemic viral diseases such as influenza, the common cold, and encephalitis might be alleviated by the administration of stimulatory forms of B lymphocyte antigens systemically.

Alternatively, anti-viral immune responses may be enhanced in an infected patient by removing T cells from the patient, costimulating the T cells *in vitro* with viral antigenpulsed APCs either expressing a peptide of the present invention or together with a stimulatory form of a soluble peptide of the present invention and reintroducing the *in vitro* activated T cells into the patient. Another method of enhancing anti-viral immune responses would be to isolate infected cells from a patient, transfect them with a nucleic acid encoding a protein of the present invention as described herein such that the cells express all or a portion of the protein on their surface, and reintroduce the transfected cells into the patient. The infected cells would now be capable of delivering a costimulatory signal to, and thereby activate, T cells *in vivo*.

In another application, up regulation or enhancement of antigen function (preferably B lymphocyte antigen function) may be useful in the induction of tumor immunity. Tumor cells (e.g., sarcoma, melanoma, lymphoma, leukemia, neuroblastoma, carcinoma) transfected with a nucleic acid encoding at least one peptide of the present invention can be administered to a subject to overcome tumor-specific tolerance in the subject. If desired, the tumor cell can be transfected to express a combination of peptides. For example, tumor cells obtained from a patient can be transfected ex vivo with an expression vector directing the expression of a peptide having B7-2-like activity alone, or in conjunction with a peptide having B7-1-like activity and/or B7-3-like activity. The transfected tumor cells are returned to the patient to result in expression of the peptides on the surface of the transfected cell. Alternatively, gene therapy techniques can be used to target a tumor cell for transfection in vivo.

The presence of the peptide of the present invention having the activity of a B lymphocyte antigen(s) on the surface of the tumor cell provides the necessary costimulation signal to T cells to induce a T cell mediated immune response against the transfected tumor cells. In addition, tumor cells which lack MHC class I or MHC class II molecules, or which fail to reexpress sufficient amounts of MHC class I or MHC class II molecules, can be transfected with nucleic acid encoding all or a portion of (e.g., a cytoplasmic-domain truncated portion) of an MHC class I α chain protein and β_2 microglobulin protein or an MHC class II α chain protein and an MHC class II β chain protein to thereby express MHC class I or MHC class II proteins on the cell surface. Expression of the appropriate class I

or class II MHC in conjunction with a peptide having the activity of a B lymphocyte antigen (e.g., B7-1, B7-2, B7-3) induces a T cell mediated immune response against the transfected tumor cell. Optionally, a gene encoding an antisense construct which blocks expression of an MHC class II associated protein, such as the invariant chain, can also be cotransfected with a DNA encoding a peptide having the activity of a B lymphocyte antigen to promote presentation of tumor associated antigens and induce tumor specific immunity. Thus, the induction of a T cell mediated immune response in a human subject may be sufficient to overcome tumor-specific tolerance in the subject.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for thymocyte or splenocyte cytotoxicity include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Bowmanet al., J. Virology 61:1992-1998; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., Cellular Immunology 133:327-341, 1991; Brown et al., J. Immunol. 153:3079-3092, 1994.

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Assays for T-cell-dependent immunoglobulin responses and isotype switching (which will identify, among others, proteins that modulate T-cell dependent antibody responses and that affect Th1/Th2 profiles) include, without limitation, those described in: Maliszewski, J. Immunol. 144:3028-3033, 1990; and Assays for B cell function: *In vitro* antibody production, Mond, J.J. and Brunswick, M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.8.1-3.8.16, John Wiley and Sons, Toronto. 1994.

Mixed lymphocyte reaction (MLR) assays (which will identify, among others, proteins that generate predominantly Th1 and CTL responses) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-

3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., J. Immunol. 149:3778-3783, 1992.

Dendritic cell-dependent assays (which will identify, among others, proteins expressed by dendritic cells that activate naive T-cells) include, without limitation, those described in: Guery et al., J. Immunol. 134:536-544, 1995; Inaba et al., Journal of Experimental Medicine 173:549-559, 1991; Macatonia et al., Journal of Immunology 154:5071-5079, 1995; Porgador et al., Journal of Experimental Medicine 182:255-260, 1995; Nair et al., Journal of Virology 67:4062-4069, 1993; Huang et al., Science 264:961-965, 1994; Macatonia et al., Journal of Experimental Medicine 169:1255-1264, 1989; Bhardwaj et al., Journal of Clinical Investigation 94:797-807, 1994; and Inaba et al., Journal of Experimental Medicine 172:631-640, 1990.

Assays for lymphocyte survival/apoptosis (which will identify, among others, proteins that prevent apoptosis after superantigen induction and proteins that regulate lymphocyte homeostasis) include, without limitation, those described in: Darzynkiewicz et al., Cytometry 13:795-808, 1992; Gorczyca et al., Leukemia 7:659-670, 1993; Gorczyca et al., Cancer Research 53:1945-1951, 1993; Itoh et al., Cell 66:233-243, 1991; Zacharchuk, Journal of Immunology 145:4037-4045, 1990; Zamai et al., Cytometry 14:891-897, 1993; Gorczyca et al., International Journal of Oncology 1:639-648, 1992.

Assays for proteins that influence early steps of T-cell commitment and development include, without limitation, those described in: Antica et al., Blood 84:111-117, 1994; Fine et al., Cellular Immunology 155:111-122, 1994; Galy et al., Blood 85:2770-2778, 1995; Toki et al., Proc. Nat. Acad Sci. USA 88:7548-7551, 1991.

25 <u>Hematopoiesis Regulating Activity</u>

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A protein of the present invention may be useful in regulation of hematopoiesis and, consequently, in the treatment of myeloid or lymphoid cell deficiencies. Even marginal biological activity in support of colony forming cells or of factor-dependent cell lines indicates involvement in regulating hematopoiesis, e.g. in supporting the growth and proliferation of erythroid progenitor cells alone or in combination with other cytokines, thereby indicating utility, for example, in treating various anemias or for use in conjunction with irradiation/chemotherapy to stimulate the production of erythroid precursors and/or erythroid cells; in supporting the growth and proliferation of myeloid cells such as granulocytes and monocytes/macrophages (i.e., traditional CSF activity) useful, for

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example, in conjunction with chemotherapy to prevent or treat consequent myelo-suppression; in supporting the growth and proliferation of megakaryocytes and consequently of platelets thereby allowing prevention or treatment of various platelet disorders such as thrombocytopenia, and generally for use in place of or complimentary to platelet transfusions; and/or in supporting the growth and proliferation of hematopoietic stem cells which are capable of maturing to any and all of the above-mentioned hematopoietic cells and therefore find therapeutic utility in various stem cell disorders (such as those usually treated with transplantation, including, without limitation, aplastic anemia and paroxysmal nocturnal hemoglobinuria), as well as in repopulating the stem cell compartment post irradiation/chemo:herapy,either *in-vivo* or *ex-vivo* (i.e., in conjunction with bone marrow transplantation or with peripheral progenitor cell transplantation (homologous or heterologous)) as normal cells or genetically manipulated for gene therapy.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for proliferation and differentiation of various hematopoietic lines are cited above.

Assays for embryonic stem cell differentiation (which will identify, among others, proteins that influence embryonic differentiation hematopoiesis) include, without limitation, those described in: Johansson et al. Cellular Biology 15:141-151, 1995; Keller et al., Molecular and Cellular Biology 13:473-486, 1993; McClanahan et al., Blood 81:2903-2915, 1993.

Assays for stem cell survival and differentiation (which will identify, among others, proteins that regulate lympho-hematopoiesis) include, without limitation, those described in: Methylcellulose colony forming assays, Freshney, M.G. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 265-268, Wiley-Liss, Inc., New York, NY. 1994; Hirayama et al., Proc. Natl. Acad. Sci. USA 89:5907-5911, 1992; Primitive hematopoietic colony forming cells with high proliferative potential, McNiece, I.K. and Briddell, R.A. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 23-39, Wiley-Liss, Inc., New York, NY. 1994; Neben et al., Experimental Hematology 22:353-359, 1994; Cobblestone area forming cell assay, Ploemacher, R.E. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 1-21, Wiley-Liss, Inc., New York, NY. 1994; Long term bone marrow cultures in the presence of stromal cells, Spooncer, E., Dexter, M. and Allen, T. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 163-179, Wiley-Liss, Inc., New York, NY. 1994; Long term culture initiating cell assay, Sutherland,

H.J. In Culture of Hematopoietic Cells. R.I. Freshney, et al. eds. Vol pp. 139-162, Wiley-Liss, Inc., New York, NY. 1994.

Tissue Growth Activity

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A protein of the present invention also may have utility in compositions used for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, as well as for wound healing and tissue repair and replacement, and in the treatment of burns, incisions and ulcers.

A protein of the present invention, which induces cartilage and/or bone growth in circumstances where bone is not normally formed, has application in the healing of bone fractures and cartilage damage or defects in humans and other animals. Such a preparation employing a protein of the invention may have prophylactic use in closed as well as open fracture reduction and also in the improved fixation of artificial joints. *De novo* bone formation induced by an osteogenic agent contributes to the repair of congenital, trauma induced, or oncologic resection induced craniofacial defects, and also is useful in cosmetic plastic surgery.

A protein of this invention may also be used in the treatment of periodontal disease, and in other tooth repair processes. Such agents may provide an environment to attract bone-forming cells, stimulate growth of bone-forming cells or induce differentiation of progenitors of bone-forming cells. A protein of the invention may also be useful in the treatment of osteoporosis or osteoarthritis, such as through stimulation of bone and/or cartilage repair or by blocking inflammation or processes of tissue destruction (collagenase activity, osteoclast activity, etc.) mediated by inflammatory processes.

Another category of tissue regeneration activity that may be attributable to the protein of the present invention is tendon/ligament formation. A protein of the present invention, which induces tendon/ligament-like tissue or other tissue formation in circumstances where such tissue is not normally formed, has application in the healing of tendon or ligament tears, deformities and other tendon or ligament defects in humans and other animals. Such a preparation employing a tendon/ligament-liketissue inducing protein may have prophylactic use in preventing damage to tendon or ligament tissue, as well as use in the improved fixation of tendon or ligament to bone or other tissues, and in repairing defects to tendon or ligament tissue. De novo tendon/ligament-liketissue formation induced by a composition of the present invention contributes to the repair of congenital, trauma induced, or other tendon or ligament defects of other origin, and is also useful in cosmetic

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plastic surgery for attachment or repair of tendons or ligaments. The compositions of the present invention may provide an environment to attract tendon- or ligament-forming cells, stimulate growth of tendon- or ligament-forming cells, induce differentiation of progenitors of tendon- or ligament-forming cells, or induce growth of tendon/ligament cells or progenitors ex vivo for return in vivo to effect tissue repair. The compositions of the invention may also be useful in the treatment of tendinitis, carpal tunnel syndrome and other tendon or ligament defects. The compositions may also include an appropriate matrix and/or sequestering agent as a carrier as is well known in the art.

The protein of the present invention may also be useful for proliferation of neural cells and for regeneration of nerve and brain tissue, *i.e.* for the treatment of central and peripheral nervous system diseases and neuropathies, as well as mechanical and traumatic disorders, which involve degeneration, death or trauma to neural cells or nerve tissue. More specifically, a protein may be used in the treatment of diseases of the peripheral nervous system, such as peripheral nerve injuries, peripheral neuropathy and localized neuropathies, and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome. Further conditions which may be treated in accordance with the present invention include mechanical and traumatic disorders, such as spinal cord disorders, head trauma and cerebrovascular diseases such as stroke. Peripheral neuropathies resulting from chemotherapy or other medical therapies may also be treatable using a protein of the invention.

Proteins of the invention may also be useful to promote better or faster closure of non-healing wounds, including without limitation pressure ulcers, ulcers associated with vascular insufficiency, surgical and traumatic wounds, and the like.

It is expected that a protein of the present invention may also exhibit activity for generation or regeneration of other tissues, such as organs (including, for example, pancreas, liver, intestine, kidney, skin, endothelium), muscle (smooth, skeletal or cardiac) and vascular (including vascular endothelium) tissue, or for promoting the growth of cells comprising such tissues. Part of the desired effects may be by inhibition or modulation of fibrotic scarring to allow normal tissue to regenerate. A protein of the invention may also exhibit angiogenic activity.

A protein of the present invention may also be useful for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage.

A protein of the present invention may also be useful for promoting or inhibiting differentiation of tissues described above from precursor tissues or cells; or for inhibiting the growth of tissues described above.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for tissue generation activity include, without limitation, those described in: International Patent Publication No. WO95/16035 (bone, cartilage, tendon); International Patent Publication No. WO95/05846 (nerve, neuronal); International Patent Publication No. WO91/07491 (skin, endothelium).

Assays for wound healing activity include, without limitation, those described in: Winter, <u>Epidermal Wound Healing</u>, pps. 71-112 (Maibach, HI and Rovee, DT, eds.), Year Book Medical Publishers, Inc., Chicago, as modified by Eaglstein and Mertz, J. Invest. Dermatol 71:382-84 (1978).

15 Activin/Inhibin Activity

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A protein of the present invention may also exhibit activin- or inhibin-related activities. Inhibins are characterized by their ability to inhibit the release of follicle stimulating hormone (FSH), while activins and are characterized by their ability to stimulate the release of follicle stimulating hormone (FSH). Thus, a protein of the present invention, alone or in heterodimers with a member of the inhibin α family, may be useful as a contraceptive based on the ability of inhibins to decrease fertility in female mammals and decrease spermatogenesis in male mammals. Administration of sufficient amounts of other inhibins can induce infertility in these mammals. Alternatively, the protein of the invention, as a homodimer or as a heterodimer with other protein subunits of the inhibin- β group, may be useful as a fertility inducing therapeutic, based upon the ability of activin molecules in stimulating FSH release from cells of the anterior pituitary. See, for example, United States Patent 4,798,885. A protein of the invention may also be useful for advancement of the onset of fertility in sexually immature mammals, so as to increase the lifetime reproductive performance of domestic animals such as cows, sheep and pigs.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for activin/inhibin activity include, without limitation, those described in: Vale et al., Endocrinology 91:562-572, 1972; Ling et al., Nature 321:779-782, 1986; Vale

et al., Nature 321:776-779, 1986; Mason et al., Nature 318:659-663, 1985; Forage et al., Proc. Natl. Acad. Sci. USA 83:3091-3095, 1986.

Chemotactic/Chemokinetic Activity

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A protein of the present invention may have chemotactic or chemokinetic activity (e.g., act as a chemokine) for mammalian cells, including, for example, monocytes, fibroblasts, neutrophils, T-cells, mast cells, eosinophils, epithelial and/or endothelial cells. Chemotactic and chemokinetic proteins can be used to mobilize or attract a desired cell population to a desired site of action. Chemotactic or chemokinetic proteins provide particular advantages in treatment of wounds and other trauma to tissues, as well as in treatment of localized infections. For example, attraction of lymphocytes, monocytes or neutrophils to tumors or sites of infection may result in improved immune responses against the tumor or infecting agent.

A protein or peptide has chemotactic activity for a particular cell population if it can stimulate, directly or indirectly, the directed orientation or movement of such cell population. Preferably, the protein or peptide has the ability to directly stimulate directed movement of cells. Whether a particular protein has chemotactic activity for a population of cells can be readily determined by employing such protein or peptide in any known assay for cell chemotaxis.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for chemotactic activity (which will identify proteins that induce or prevent chemotaxis) consist of assays that measure the ability of a protein to induce the migration of cells across a membrane as well as the ability of a protein to induce the adhesion of one cell population to another cell population. Suitable assays for movement and adhesion include, without limitation, those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 6.12, Measurement of alpha and beta Chemokines 6.12.1-6.12.28; Taub et al. J. Clin. Invest. 95:1370-1376, 1995; Lind et al. APMIS 103:140-146, 1995; Muller et al Eur. J. Immunol. 25: 1744-1748; Gruber et al. J. of Immunol. 152:5860-5867, 1994; Johnston et al. J. of Immunol. 153: 1762-1768, 1994.

Hemostatic and Thrombolytic Activity

A protein of the invention may also exhibit hemostatic or thrombolytic activity. As a result, such a protein is expected to be useful in treatment of various coagulation disorders (including hereditary disorders, such as hemophilias) or to enhance coagulation and other hemostatic events in treating wounds resulting from trauma, surgery or other causes. A protein of the invention may also be useful for dissolving or inhibiting formation of thromboses and for treatment and prevention of conditions resulting therefrom (such as, for example, infarction of cardiac and central nervous system vessels (e.g., stroke).

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assay for hemostatic and thrombolytic activity include, without limitation, those described in: Linet et al., J. Clin. Pharmacol. 26:131-140, 1986; Burdick et al., Thrombosis Res. 45:413-419, 1987; Humphrey et al., Fibrinolysis 5:71-79 (1991); Schaub, Prostaglandins 35:467-474, 1988.

15 Receptor/Ligand Activity

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A protein of the present invention may also demonstrate activity as receptors, receptor ligands or inhibitors or agonists of receptor/ligand interactions. Examples of such receptors and ligands include, without limitation, cytokine receptors and their ligands, receptor kinases and their ligands, receptor phosphatases and their ligands, receptors involved in cell-cell interactions and their ligands (including without limitation, cellular adhesion molecules (such as selectins, integrins and their ligands) and receptor/ligand pairs involved in antigen presentation, antigen recognition and development of cellular and humoral immune responses). Receptors and ligands are also useful for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. A protein of the present invention (including, without limitation, fragments of receptors and ligands) may themselves be useful as inhibitors of receptor/ligand interactions.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for receptor-ligand activity include without limitation those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 7.28, Measurement of Cellular Adhesion under static conditions 7.28.1-7.28.22), Takai et al., Proc. Natl. Acad. Sci. USA 84:6864-6868, 1987; Bierer et al., J. Exp. Med. 168:1145-1156, 1988; Rosenstein et al., J. Exp. Med.

169:149-160 1989; Stoltenborg et al., J. Immunol. Methods 175:59-68, 1994; Stitt et al., Cell 80:661-670, 1995.

Anti-Inflammatory Activity

Proteins of the present invention may also exhibit anti-inflammatory activity. The anti-inflammatory activity may be achieved by providing a stimulus to cells involved in the inflammatory response, by inhibiting or promoting cell-cell interactions (such as, for example, cell adhesion), by inhibiting or promoting chemotaxis of cells involved in the inflammatory process, inhibiting or promoting cell extravasation, or by stimulating or suppressing production of other factors which more directly inhibit or promote an inflammatory response. Proteins exhibiting such activities can be used to treat inflammatory conditions including chronic or acute conditions), including without limitation inflammation associated with infection (such as septic shock, sepsis or systemic inflammatory response syndrome (SIRS)), ischemia-reperfusioninjury, endotoxin lethality, arthritis, complement-mediated hyperacute rejection, nephritis, cytokine or chemokine-induced lung injury, inflammatory bowel disease, Crohn's disease or resulting from over production of cytokines such as TNF or IL-1. Proteins of the invention may also be useful to treat anaphylaxis and hypersensitivity to an antigenic substance or material.

Tumor Inhibition Activity

In addition to the activities described above for immunological treatment or prevention of tumors, a protein of the invention may exhibit other anti-tumor activities. A protein may inhibit tumor growth directly or indirectly (such as, for example, via ADCC). A protein may exhibit its tumor inhibitory activity by acting on tumor tissue or tumor precursor tissue, by inhibiting formation of tissues necessary to support tumor growth (such as, for example, by inhibiting angiogenesis), by causing production of other factors, agents or cell types which inhibit tumor growth, or by suppressing, eliminating or inhibiting factors, agents or cell types which promote tumor growth.

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Other Activities

A protein of the invention may also exhibit one or more of the following additional activities or effects: inhibiting the growth, infection or function of, or killing, infectious agents, including, without limitation, bacteria, viruses, fungi and other parasites; effecting

(suppressing or enhancing) bodily characteristics, including, without limitation, height, weight, hair color, eye color, skin, fat to lean ratio or other tissue pigmentation, or organ or body part size or shape (such as, for example, breast augmentation or diminution, change in bone form or shape); effecting biorhythms or caricadic cycles or rhythms; effecting the fertility of male or female subjects; effecting the metabolism, catabolism, anabolism, processing, utilization, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional factors or component(s); effecting behavioral characteristics, including, without limitation, appetite, libido, stress, cognition (including cognitive disorders), depression (including depressive disorders) and violent behaviors; providing analgesic effects or other pain reducing effects; promoting differentiation and growth of embryonic stem cells in lineages other than hematopoietic lineages; hormonal or endocrine activity; in the case of enzymes, correcting deficiencies of the enzyme and treating deficiency-related diseases; treatment of hyperproliferative disorders (such as, for example, psoriasis); immunoglobulin-like activity (such as, for example, the ability to bind antigens or complement); and the ability to act as an antigen in a vaccine composition to raise an immune response against such protein or another material or entity which is cross-reactive with such protein.

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ADMINISTRATION AND DOSING

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A protein of the present invention (from whatever source derived, including without limitation from recombinant and non-recombinant sources) may be used in a pharmaceutical composition when combined with a pharmaceutically acceptable carrier. composition may also contain (in addition to protein and a carrier) diluents, fillers, salts, buffers, stabilizers, solubilizers, and other materials well known in the art. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredient(s). The characteristics of the carrier will depend on the route of administration. The pharmaceutical composition of the invention may also contain cytokines, lymphokines, or other hematopoietic factors such as M-CSF, GM-CSF, TNF, IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13, IL-14, IL-15, IFN, TNF0, TNF1, TNF2, G-CSF, Meg-CSF, thrombopoietin, stem cell factor, and erythropoietin. The pharmaceutical composition may further contain other agents which either enhance the activity of the protein or compliment its activity or use in treatment. Such additional factors and/or agents may be included in the pharmaceutical composition to produce a synergistic effect with protein of the invention, or to minimize side effects. Conversely, protein of the present invention may be included in formulations of the particular cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent to minimize side effects of the cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent.

A protein of the present invention may be active in multimers (e.g., heterodimers or homodimers) or complexes with itself or other proteins. As a result, pharmaceutical compositions of the invention may comprise a protein of the invention in such multimeric or complexed form.

The pharmaceutical composition of the invention may be in the form of a complex of the protein(s) of present invention along with protein or peptide antigens. The protein and/or peptide antigen will deliver a stimulatory signal to both B and T lymphocytes. B lymphocytes will respond to antigen through their surface immunoglobulin receptor. T lymphocytes will respond to antigen through the T cell receptor (TCR) following presentation of the antigen by MHC proteins. MHC and structurally related proteins including those encoded by class I and class II MHC genes on host cells will serve to present the peptide antigen(s) to T lymphocytes. The antigen components could also be supplied as purified MHC-peptide complexes alone or with co-stimulatory molecules that

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can directly signal T cells. Alternatively antibodies able to bind surface immunolgobulin and other molecules on B cells as well as antibodies able to bind the TCR and other molecules on T cells can be combined with the pharmaceutical composition of the invention.

The pharmaceutical composition of the invention may be in the form of a liposome in which protein of the present invention is combined, in addition to other pharmaceutically acceptable carriers, with amphipathic agents such as lipids which exist in aggregated form as micelles, insoluble monolayers, liquid crystals, or lamellar layers in aqueous solution. Suitable lipids for liposomal formulation include, without limitation, monoglycerides, diglycerides, sulfatides, lysolecithin, phospholipids, saponin, bile acids, and the like. Preparation of such liposomal formulations is within the level of skill in the art, as disclosed, for example, in U.S. Patent No. 4,235,871; U.S. Patent No. 4,501,728; U.S. Patent No. 4,837,028; and U.S. Patent No. 4,737,323, all of which are incorporated herein by reference.

As used herein, the term "therapeutically effective amount" means the total amount of each active component of the pharmaceutical composition or method that is sufficient to show a meaningful patient benefit, i.e., treatment, healing, prevention or amelioration of the relevant medical condition, or an increase in rate of treatment, healing, prevention or amelioration of such conditions. When applied to an individual active ingredient, administered alone, the term refers to that ingredient alone. When applied to a combination, the term refers to combined amounts of the active ingredients that result in the therapeutic effect, whether administered in combination, serially or simultaneously.

In practicing the method of treatment or use of the present invention, a therapeutically effective amount of protein of the present invention is administered to a mammal having a condition to be treated. Protein of the present invention may be administered in accordance with the method of the invention either alone or in combination with other therapies such as treatments employing cytokines, lymphokines or other hematopoietic factors. When co-administered with one or more cytokines, lymphokines or other hematopoietic factors, protein of the present invention may be administered either simultaneously with the cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors, or sequentially. If administered sequentially, the attending physician will decide on the appropriate sequence of administering protein of the present invention in combination with cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors.

Administration of protein of the present invention used in the pharmaceutical composition or to practice the method of the present invention can be carried out in a variety of conventional ways, such as oral ingestion, inhalation, topical application or cutaneous, subcutaneous, intraperitoneal, parenteral or intravenous injection. Intravenous administration to the patient is preferred.

When a therapeutically effective amount of protein of the present invention is administered orally, protein of the present invention will be in the form of a tablet, capsule, powder, solution or elixir. When administered in tablet form, the pharmaceutical composition of the invention may additionally contain a solid carrier such as a gelatin or an adjuvant. The tablet, capsule, and powder contain from about 5 to 95% protein of the present invention, and preferably from about 25 to 90% protein of the present invention. When administered in liquid form, a liquid carrier such as water, petroleum, oils of animal or plant origin such as peanut oil, mineral oil, soybean oil, or sesame oil, or synthetic oils may be added. The liquid form of the pharmaceutical composition may further contain physiological saline solution, dextrose or other saccharide solution, or glycols such as ethylene glycol, propylene glycol or polyethylene glycol. When administered in liquid form, the pharmaceutical composition contains from about 0.5 to 90% by weight of protein of the present invention, and preferably from about 1 to 50% protein of the present invention.

When a therapeutically effective amount of protein of the present invention is administered by intravenous, cutaneous or subcutaneous injection, protein of the present invention will be in the form of a pyrogen-free, parenterally acceptable aqueous solution. The preparation of such parenterally acceptable protein solutions, having due regard to pH, isotonicity, stability, and the like, is within the skill in the art. A preferred pharmaceutical composition for intravenous, cutaneous, or subcutaneous injection should contain, in addition to protein of the present invention, an isotonic vehicle such as Sodium Chloride Injection, Ringer's Injection, Dextrose Injection, Dextrose and Sodium Chloride Injection, Lactated Ringer's Injection, or other vehicle as known in the art. The pharmaceutical composition of the present invention may also contain stabilizers, preservatives, buffers, antioxidants, or other additives known to those of skill in the art.

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The amount of protein of the present invention in the pharmaceutical composition of the present invention will depend upon the nature and severity of the condition being treated, and on the nature of prior treatments which the patient has undergone. Ultimately, the attending physician will decide the amount of protein of the present invention with

which to treat each individual patient. Initially, the attending physician will administer low doses of protein of the present invention and observe the patient's response. Larger doses of protein of the present invention may be administered until the optimal therapeutic effect is obtained for the patient, and at that point the dosage is not increased further. It is contemplated that the various pharmaceutical compositions used to practice the method of the present invention should contain about $0.01~\mu g$ to about 100~mg (preferably about 0.1~ng to about 10~mg, more preferably about $0.1~\mu g$ to about 1~mg) of protein of the present invention per kg body weight.

The duration of intravenous therapy using the pharmaceutical composition of the present invention will vary, depending on the severity of the disease being treated and the condition and potential idiosyncratic response of each individual patient. It is contemplated that the duration of each application of the protein of the present invention will be in the range of 12 to 24 hours of continuous intravenous administration. Ultimately the attending physician will decide on the appropriate duration of intravenous therapy using the pharmaceutical composition of the present invention.

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Protein of the invention may also be used to immunize animals to obtain polyclonal and monoclonal antibodies which specifically react with the protein. Such antibodies may be obtained using either the entire protein or fragments thereof as an immunogen. The peptide immunogens additionally may contain a cysteine residue at the carboxyl terminus, and are conjugated to a hapten such as keyhole limpet hemocyanin (KLH). Methods for synthesizing such peptides are known in the art, for example, as in R.P. Merrifield, J. Amer.Chem. Soc. 85, 2149-2154 (1963); J.L. Krstenansky, et al., FEBS Lett. 211, 10 (1987). Monoclonal antibodies binding to the protein of the invention may be useful diagnostic agents for the immunodetection of the protein. Neutralizing monoclonal antibodies binding to the protein may also be useful therapeutics for both conditions associated with the protein and also in the treatment of some forms of cancer where abnormal expression of the protein is involved. In the case of cancerous cells or leukemic cells, neutralizing monoclonal antibodies against the protein may be useful in detecting and preventing the metastatic spread of the cancerous cells, which may be mediated by the protein.

For compositions of the present invention which are useful for bone, cartilage, tendon or ligament regeneration, the therapeutic method includes administering the composition topically, systematically, or locally as an implant or device. When administered, the therapeutic composition for use in this invention is, of course, in a

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pyrogen-free, physiologically acceptable form. Further, the composition may desirably be encapsulated or injected in a viscous form for delivery to the site of bone, cartilage or tissue damage. Topical administration may be suitable for wound healing and tissue repair. Therapeutically useful agents other than a protein of the invention which may also optionally be included in the composition as described above, may alternatively or additionally, be administered simultaneously or sequentially with the composition in the methods of the invention. Preferably for bone and/or cartilage formation, the composition would include a matrix capable of delivering the protein-containing composition to the site of bone and/or cartilage damage, providing a structure for the developing bone and cartilage and optimally capable of being resorbed into the body. Such matrices may be formed of materials presently in use for other implanted medical applications.

The choice of matrix material is based on biocompatibility, biodegradability, mechanical properties, cosmetic appearance and interface properties. The particular application of the compositions will define the appropriate formulation. Potential matrices for the compositions may be biodegradable and chemically defined calcium sulfate, tricalciumphosphate, hydroxyapatite, polylactic acid, polyglycolic acid and polyanhydrides. Other potential materials are biodegradable and biologically well-defined, such as bone or dermal collagen. Further matrices are comprised of pure proteins or extracellular matrix components. Other potential matrices are nonbiodegradable and chemically defined, such as sintered hydroxapatite, bioglass, aluminates, or other ceramics. Matrices may be comprised of combinations of any of the above mentioned types of material, such as polylactic acid and hydroxyapatite or collagen and tricalciumphosphate. The bioceramics may be altered in composition, such as in calcium-aluminate-phosphate and processing to alter pore size, particle size, particle shape, and biodegradability.

Presently preferred is a 50:50 (mole weight) copolymer of lactic acid and glycolic acid in the form of porous particles having diameters ranging from 150 to 800 microns. In some applications, it will be useful to utilize a sequestering agent, such as carboxymethyl cellulose or autologous blood clot, to prevent the protein compositions from disassociating from the matrix.

A preferred family of sequestering agents is cellulosic materials such as alkylcelluloses(including hydroxyalkylcelluloses), including methylcellulose, ethylcellulose, hydroxyethylcellulose, hydroxypropylcellulose, hydroxypropyl-methylcellulose, and carboxymethylcellulose, the most preferred being cationic salts of carboxymethylcellulose (CMC). Other preferred sequestering agents include hyaluronic acid, sodium alginate,

poly(ethylene glycol), polyoxyethylene oxide, carboxyvinyl polymer and poly(vinyl alcohol). The amount of sequestering agent useful herein is 0.5-20 wt%, preferably 1-10 wt% based on total formulation weight, which represents the amount necessary to prevent desorbtion of the protein from the polymer matrix and to provide appropriate handling of the composition, yet not so much that the progenitor cells are prevented from infiltrating the matrix, thereby providing the protein the opportunity to assist the osteogenic activity of the progenitor cells.

In further compositions, proteins of the invention may be combined with other agents beneficial to the treatment of the bone and/or cartilage defect, wound, or tissue in question. These agents include various growth factors such as epidermal growth factor (EGF), platelet derived growth factor (PDGF), transforming growth factors (TGF- α and TGF- β), and insulin-like growth factor (IGF).

The therapeutic compositions are also presently valuable for veterinary applications. Particularly domestic animals and thoroughbred horses, in addition to humans, are desired patients for such treatment with proteins of the present invention.

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The dosage regimen of a protein-containing pharmaceutical composition to be used in tissue regeneration will be determined by the attending physician considering various factors which modify the action of the proteins, e.g., amount of tissue weight desired to be formed, the site of damage, the condition of the damaged tissue, the size of a wound, type of damaged tissue (e.g., bone), the patient's age, sex, and diet, the severity of any infection, time of administration and other clinical factors. The dosage may vary with the type of matrix used in the reconstitution and with inclusion of other proteins in the pharmaceutical composition. For example, the addition of other known growth factors, such as IGF I (insulin like growth factor I), to the final composition, may also effect the dosage. Progress can be monitored by periodic assessment of tissue/bone growth and/or repair, for example, X-rays, histomorphometric determinations and tetracycline labeling.

Polynucleotides of the present invention can also be used for gene therapy. Such polynucleotides can be introduced either *in vivo* or *ex vivo* into cells for expression in a mammalian subject. Polynucleotides of the invention may also be administered by other known methods for introduction of nucleic acid into a cell or organism (including, without limitation, in the form of viral vectors or naked DNA).

Cells may also be cultured *ex vivo* in the presence of proteins of the present invention in order to proliferate or to produce a desired effect on or activity in such cells. Treated cells can then be introduced *in vivo* for therapeutic purposes.

Patent and literature references cited herein are incorporated by reference as if fully set forth.

Table 3

Sel.	Species	Tissue	Cell Type
AA	Human	Kidney	19-23wks., M/F pool of 5
AB	Human	Fetal Lung	Fetal Lung
AC	Human	Placenta	26yrs., 1 specimen
AD	Murine		Fetal ES cells
		Embryo	
AE	Murine	Spleen	Adult spleen
AF	Murine	Fetal Brain	Fetal Brain
AG	Murine	Fetal Brain	Fetal Brain
AH	Murine	Fetal Thymus	Fetal Thymus
AI	Human	Blood	Adult PBMC/TH1or2
AJ	Human	Testes	10-61yrs., pool of 11
AK	Human	Kidney	19-23wks., M/F pool of 5
AL	Human	Neural	Adult Glioblastoma line TG-1
AM	Human	Kidney	19-23wks., M/F pool of 5
AN	Murine	Bone Marrow	Adult Stromal cell line FCM-4
AO	Murine	Thymus	Adult Subtr. Adult Thymus
AP	Human	Placenta	26yrs., 1 specimen
AQ	Human	Ovary	PA-1 Teratocarcinoma
AR	Human	Retina	16-75yrs., pool of 76
AS	Human	Brain	19-23wks., M/F pool of 5
AT	Human	Blood	Adult lymphocytes+dend. cells
AU	Human	Testes	10-61yrs., pool of 11
AV	Murine	Spleen	Adult spleen
AW	Human	Ovary	PA-1 Teratocarcinoma
AX	Human	Testes	10-61yrs., pool of 11
AY	Human	Retina	16-75yrs., pool of 76
AZ	Human	Colon	Caco-2 Adenocarcinoma
В	Human	Blood	PeripheralBloodMononuclearCell
BA	Human	Placenta	26yrs., 1 specimen
BB	Human	Blood	Adult PBMC/TH1or2
BC	Murine	Embryo	Fetal ES cells
BD	Human	Kidney	19-23wks., M/F pool of 5
BE	Human	Blood	Adult PBMC/TH1or2
BF	Human	Brain	19-23wks., M/F pool of 5
BG	Human	Brain	N/A
BH	Human	Ovary	PA-1 Teratocarcinoma
BI	Human	Kidney	19-23wks., M/F pool of 5
BJ	Human	Ovary	PA-1 Teratocarcinoma
BK	Human	Retina	16-75yrs., pool of 76
BL	Human	Testes	10-61yrs., pool of 11
BM	Human	Muscle	N/A
BN	Human	Placenta	26yrs., 1 specimen
BO	Human	Retina	16-75yrs., pool of 76
BP	Human	Kidney	19-23wks., M/F pool of 5
		*	Caco-2 Adenocarcinoma Caco2
BQ	Human	Colon	Caco-2 Adenocarcinoma Caco2

BR	Human	Kidney	19-23wks., M/F pool of 5
BS	Human	Pituitary	Adult Pituitary
BT	Human	Blood	Adult PBMC
BU	Human	Placenta	26yrs., 1 specimen
BV	Human	Brain	N/A
BW	Human	Blood	Adult PBMC
BX	Human	Ovary	PA-1 Teratocarcinoma
BY		•	Adult PBMC/TH1or2
BZ	Human	Blood	
	Human	Kidney	19-23wks., M/F pool of 5
C	Human	Blood	PeripheralBloodMononuclearCell
CA	Murine	Embryo	Fetal ES cell embryoid bodies
CB	Human	Brain	19-23wks., M/F pool of 5
CC .	Human	Brain	N/A
CD	Human	Brain	19-23wks., M/F pool of 5
CE .	Human	Blood	Adult lymphocytes+dend. cells
CF	Human	Placenta	26yrs., 1 specimen
CG	Human	Testes	10-61yrs., pool of 11
CH	Human	Kidney	19-23wks., M/F pool of 5
CI	Human	Brain	N/A
CJ	Human	Brain	19-23wks., M/F pool of 5
CK	Human	Testes	10-61yrs., pool of 11
CL	Human	Retina	16-75yrs., pool of 76
CM	Human	Adult Lung	Adult Lung
CN	Human	Brain	19-23wks., M/F pool of 5
CO	Human	Brain	N/A
CP	Human	SalivaryGland	N/A
CQ	Human	Heart	13-73yrs., pool of 3
CR	Human	Testes	10-61yrs., pool of 11
CS	Human	Brain	19-23wks., M/F pool of 5
CT	Human	Brain	N/A
CU	Human	Pineal Gland	N/A
CV			
CW	Human	Mammary	Adult Human Mammary
	Human	Brain	19-23wks., M/F pool of 5
CY	Human	Pineal Gland	N/A
CZ	Human	Testes	10-61yrs., pool of 11
D	Human	Blood	PeripheralBloodMononuclearCell
DA	Human	Placenta	26yrs., 1 specimen
DB	Human	Prostate	Adult Prostate
DC	Human	Pineal Gland	Adult Pineal Gland
DD	Human	Testes	10-61yrs., pool of 11
DE	Human	Testes	Adult NCCIT TeratoCA
DF	Human	Brain	N/A
DG	Human	Placenta	26yrs., 1 specimen
DH	Human	Brain	19-23wks., M/F pool of 5
DI	Human	Testes	10-61yrs., pool of 11
DJ	Human	Placenta	26yrs., 1 specimen
DK	Human	Fetal Kidney2	Fetal Kidney
		,	•

DL	Human	Brain	N/A
DM	Human	Brain	N/A
DN	Human	Brain	
DO	Human	Testes	19-23wks., M/F pool of 5
DP			10-61yrs., pool of 11
	Murine	Embryo	Fetal ES cell embryoid bodies
DQ	Human	Placenta	26yrs., 1 specimen
DR	Human	SalivaryGland	N/A
DT	Human	Brain	N/A
DU	Human	Brain	19-23wks., M/F pool of 5
DV	Human	Pineal Gland	Adult Pineal Gland
DW	Human	Brain	N/A
DX	Human	Testes	10-61yrs., pool of 11
DY	Human	Brain	N/A
DZ	Human	Testes	Adult NCCIT TeratoCA
E	Human	Blood	PeripheralBloodMononuclearCell
EA	Human	Brain	19-23wks., M/F pool of 5
EB	Human	Melanoma	Adult Melanoma
EC	Human	Brain	N/A
ED	Human	Placenta	26yrs., 1 specimen
EE	Human	Testes	10-61yrs., pool of 11
EF	Human	Liver	Adult Liver
EG	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
EH	Human	Blood	PeripheralBloodMononuclearCell
EI	Human	Brain '	19-23wks., M/F pool of 5
EJ	Human	Placenta	26yrs., 1 specimen
EK	Human	Brain	19-23wks., M/F pool of 5
EL	Human	Testes	10-61yrs., pool of 11
EM	Human	Fetal Kidney2	Fetal Kidney
EN	Human	Brain	19-23wks., M/F pool of 5
EO	Human	Adrenal Gland	Adult Adrenal Gland
EP	Human	Placenta	26yrs., 1 specimen
EQ	Human	Testes	
ER	Human	Brain	10-61yrs., pool of 11
ES	Human	Placenta	19-23wks., M/F pool of 5
ET	Human		26yrs., 1 specimen
EU		Testes	10-61yrs., pool of 11
	Human	Kidney	Adult Kidney
EV	Human	Stomach	Adult Stomach
EW	Human	Placenta	26yrs., 1 specimen
EX	Human	Testes	10-61yrs., pool of 11
EY	Human	Brain	19-23wks., M/F pool of 5
EZ	Human	Fetal Kidney2	Fetal Kidney
FA	Human	Brain	19-23wks., M/F pool of 5
FB	Human	Placenta	26yrs., 1 specimen
FC	Human	Testes	10-61 yrs., pool of 11
FD	Human	SalivaryGland	N/A
FE	Human	Brain	N/A
FF	Human	Testes	Adult NCCIT TeratoCA

FG	Human	Brain	N/A
FH	Human	Brain	19-23wks., M/F pool of 5
FI	Human	Small Intest	Adult Small Intestine
FJ	Human	Lung CA	Adult Lung CA
FK	Human	Kidney	Adult Kidney
FM	Human	Brain	N/A
FN	Human	Brain	19-23wks., M/F pool of 5
FO	Human	Brain	N/A
FP	Human	Placenta	26yrs., 1 specimen
FQ	Human	Testes	10-61yrs., pool of 11
FR	Human	Placenta	26yrs., 1 specimen
FS	Human	Testes	10-61yrs., pool of 11
FT	Chicken	Fetal Lung	Fetal Lung
FU	Chicken	Limb Bud	Fetal St. 23 Limb Bud
FV	Human	Testes	Adult NCCIT TeratoCA
FW	Human	Testes	Adult NCCIT TeratoCA
FX	Human	Brain	19-23wks., M/F pool of 5
FY	Human	Placenta	26yrs., 1 specimen
FZ	Human	Placenta	26yrs., 1 specimen
G	Human	Blood	PeripheralBloodMononuclearCell
GA	Human	Testes	10-61yrs., pool of 11
GB	Human	Placenta	26yrs., 1 specimen
GC	Human	Testes	10-61yrs., pool of 11
GD	Human	Placenta	26yrs., 1 specimen
GE	Human	Brain	N/A
GF	Human	Brain	19-23wks., M/F pool of 5
GG	Human	Fetal Kidney2	Fetal Kidney
GH	Human	Placenta	26yrs., 1 specimen
GI	Human	Retinoblastoma	Adult Retinoblastoma Y79
GJ	Murine	Spleen	Adult Spieen
GK	Human	Fetal Kidney2	Fetal Kidney
GL	Murine	Lymph Node	Adult Lymph Node
GM	Human	Uterus	N/A
GN	Human	Blood	PeripheralBloodMononuclearCell
GO	Human	Adrenal Gland	Adult Adrenal Gland
GP	Human	Ovary	PA-1 Teratocarcinoma
GQ	Human	Pineal Gland	N/A
GR	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
GS	Human	Retina	16-75yrs., pool of 76
GT	Human	Brain	N/A
GU	Human	Fetal Kidney2	Fetal Kidney
GV	Rat	Retina	Newborn Retina
GW	Chicken	Limb Bud	Fetal St.26 Limb Bud
GX	Human	Brain	N/A
GY	Human	Testes	10-61yrş., pool of 11
GZ	Human	Brain	19-23wks., M/F pool of 5
H	Human	Blood	PeripheralBloodMononuclearCell
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HA	Human	Testes	Adult NCCIT TeratoCA
HB	Human	Fetal Kidney2	Fetal Kidney
HC	Human	Brain	19-23wks., M/F pool of 5
HD	Human	Brain	N/A
HE	Human	Testes	10-61 yrs., pool of 11
HF	Human	Brain	19-23wks., M/F pool of 5
HG	Human	Fetal Kidney2	Fetal Kidney
HH	Human	Brain	N/A
HI	Human	Testes	10-61yrs., pool of 11
HJ	Human	Brain	N/A
HK	Human	Brain	19-23wks., M/F pool of 5
HL	Human	Fetal Kidney2	Fetal Kidney
HM	Human	Testes	Adult NCCIT TeratoCA
HN	Human	Fetal Kidney2	Fetal Kidney
НО	Human	Brain	N/A
HP	Human	Brain	19-23wks., M/F pool of 5
HQ	Human	Testes	10-61yrs., pool of 11
HR	Human	Brain	N/A
HS	Human	Brain	N/A
HT	Human	Brain	19-23wks., M/F pool of 5
HU	Human	Fetal Kidney2	Fetal Kidney
HV	Human	Testes	10-61yrs., pool of 11
HW	Human	Brain	N/A
HX	Human	Brain Hippoca	Adult Brain Hippocampus
HY	Human	Trachea	Adult Trachea
HZ	Human	Brain Thalamus	Adult Brain Thalamus
I	Human	Blood	PeripheralBloodMononuclearCell
IA	Human	Thyroid	Adult Thyroid
${ m IB}$	Human	Embryonal CA	Fetal NT2-D1
IC ₁	Human	WER1-Rb1 line	Adult Retinoblastoma
ID	Human	Muscle	N/A
Œ	Human	Brain	19-23wks., M/F pool of 5
IF	Human	Uterus	N/A
IG	Human	Testes	10-61yrs., pool of 11
IH	Human	Muscle	N/A
П	Human	Brain	N/A
IJ	Human	Blood	PeripheralBloodMononuclearCell
IK	Human	Retinoblastoma	Adult Retinoblastoma Y79
${ m I\!L}$	Human	Retina	16-75yrs., pool of 76
IM	Human	Various	Various
IN	Human	Prostate	Adult Prostate
IO	Human	Brain	19-23wks., M/F pool of 5
IP	Human	Fetal Kidney2	Fetal Kidney
IQ	Human	Prostate	Adult Prostate
IR	Human	Brain Hippoca	Adult Brain Hippocampus
IS	Human	Trachea	Adult Trachea
IT	Human	Brain Thalamu	Adult Brain Thalamus

SEQUENCE LISTING

	(1)	GENERAL	INFORMATION
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- (i) APPLICANT: Jacobs, Kenneth McCoy, John LaVallie, Edward Racie, Lisa Merberg, David Treacy, Maurice Spaulding, Vikki
- Agostino, Michael
 (ii) TITLE OF INVENTION: SECRETED, EXPRESSED SEQUENCE TAGS
- (iii) NUMBER OF SEQUENCES: 1519
- (iv) CORRESPONDENCE ADDRESS
 - (A) ADDRESSE: Genetics Institute, Inc.
 - (B) STREET: 87 CambridgePark Drive
 - (C) CITY: Cambridge
 - (D) STATE: Massachusetts
 - (E) COUNTRY: U.S.A
 - (F) ZIP: 02140
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy Disk
 - (B) COMPUTER: IBM PC Compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (C) OPERATING SISIEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (vii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Brown, Scott A.
 - (B) REGISTRATION NUMBER: 32,724
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (617) 498-8224
 - (B) TELEFAX: (617) 876-5851
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGAGATGTTG	AGGTGGCTGC	TGACCTTGGG	TCTCATCTCC	TTGATTTTCT	TTATCTTCTT	60
CATTGCCGTC	CTCTCTAGGC	TGTCTTTGGC	GAGGAGGCC	CCTGCGGAAT	CGTGGTCTAT	120
ATCCCCGATA	CATATTCTGC	CTCACTGGTC	TACCTTGTTC	TCCTGCACCC	TGGTTGTCAG	180
CACCCTCCAT	CACTTCTCCC	TGCACAGGAG	GGTTGGAATA	CTGTGGTCGA	CGCCCATAGG	240

GTCTCCGCAT GTAGTAAGGT GGGAACCTTC GCCTGCGGTA GGGCCGGCGT TGTTGGGCCT

GGCCTTCGGG AGCACTCTCC GATCCCTCGT TCTTTTCCCC ACTCTCACTA TTCTGGTAAT

300

360

TTTGCTGGTA ATTGCGTGGA GGAGAACAGG TAGACTCGAG	400
(2) INFORMATION FOR SEQ ID NO:2:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
GAATTAGTTG CCAGCACTTT AAAAATTGGT ATAGTTCACA TAAATATTCT GAATTCAGGC TTTTTGGAAAA GTTGTGGACC CAAGAATACT AGGCCCGCAT TTTCTTACGT CAACATTCTT TCCAGGATGA TGAATGGACT GTTCTCTTTG GCCCCCTATC TCGAG	60 120 165
(2) INFORMATION FOR SEQ ID NO:3:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 299 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
GAATTCTAGA CCTTCCTCTC CTACTCCCTT CCTTAGGCTC CTGAACTCGT TTGCTCCTAA ACTTGTTAA TTCTTTTTCT CTGGATTTTG GTTTCTTTTG GCTTTCCCCT TCCTCTGTCT CCAACACTCT TTCCCCATGT CTTTCTGGCT GTCTCTATGT TCCTCTTCTC ATTCGGCCT CCTCCCACC TCCCACGCCC CAGCCCCTCC CTCCTTGGTC TCCTTTTCGA TATGCCAAAC CAATTTTGGG TCGAGTGCAT TCCCTCGAG	60 120 180 240 299
(2) INFORMATION FOR SEQ ID NO:4:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 241 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: GDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
GCGATTGAAT TCTAGACCTG CCTGGATTGC CTTCTGTTGT GGTAGACAAA TCACCATTAA ATGACTAAGT TTCACTGTTT TATGTGTTAAA TGATCCTTAA TAACAAAAAG TTTTAAAAGTC TTAATTTCGT AAGATTATGT AAAGGTTAAG AAAGAAATTT TAAGTGAAAA TGATAAAACC AAGCAAATGT TTATTAGTTC AATTGTTTTT CTTTTATCT TGCAGCAACG CACATCTCGA G	60 120 180 240 241
(2) INFORMATION FOR SEO ID NO:5:	

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GAATTCGGCC	TTCATGGCCT	AGGAAATGAC	TTTATTGTGG	TTGAATTAGT	TAAAGGGTAC	60
TTACATTACG	TGTTTGATTT	GGGAAATGGT	GCTAACCTCA	TCAAAGGAAG	CTCAAATAAA	120
CCTCTCAATG	ACAATCAGTG	GCACAACGTG	ATGATATCAA	GGGACACCAG	CAACCTCCAC	180
ACTGTAAAGA	TTGACACAAA	AATCACAACG	CAAATCACCG	CCGGAGCCAG	GAACTTAGAC	240
CTCAAGAGTG	ACTTATATAT	AGGAGGAGTA	GCTAAAGAAA	CATACAAATC	CTTACCAAAA	300
CTCAAOAOTO	CCADAGAAGG	CTTTCAAGGC	TGCCTGGCAT	CAGTTGATTT	AAATGGACGG	360
CTCTCGAG	CCARICIANO	• • • • • • • • • • • • • • • • • • • •				368
CICICONO						

- (2) INFORMATION FOR SEQ ID NO:6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 430 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GAATTCGGCC TTCATGC CAAAGCTTTC ACAGAGC GAGGTGTGGG CAGGACT TGAAAGTATG TAAATCT GGTGGAGTCT GGCTGAT GCTCTAAAGG GAGTGGT GCAGGACTCA GGGCCTC	TCC TCTTAGACAT GCC CTTCCTCCGT GAT GGGAGGTCTG GGC CAGGGCCATG GGC CCTTTAGGCC	GAAGATGCCC TCTCATTGCG ATCCTCCTTT TCCTAGAGGG AGGGTTCACA	ATTGGCCTCC GGGCTCCTGA TGCTAGCCCC GACTCCCCTG GTCGGGGTGG	TAGGTCCCAG AGGGGGTATC TGAACTCTGT CAGGAGGCGG TCTGGAGACT	60 120 180 240 300 360 420 430
CTGTCTCGAG					430

- (2) INFORMATION FOR SEQ ID NO:7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 391 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - ___
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

						60
GGGTGGCTCA	TGCCTGTAAT	CCCGGCACTT	GGGTAGGCCA	GGGCAGCAGG	ATCGCTTGAG	
000100010.			GGMGAGAGGG	TOTOTOTOTA	A Trrmmmm A A	120
CCCGGGAGTT	CGAGACAGCC	TGGGCAACAT	GGIGAGACCC	IGICICCAIA	70011111111	
カカカカカササごごご	AGGTGTGGTC	GTGTGTGCCT	GTGAGGCTGA	GGTGGGAGGC	TCGCTTGAGC	180
WWWW I IGCC	AGGIGIGGIC		maar.cacar.c	maaa amaaa a	CCTCCCTCAC	240
CCAGGGGTCA	AGGCTGCAGT	GAGCCATGAC	TGCACGCCAC	TOCACTCCAG	CGTGGGTGAC	~
3 C 3 C C C C C C C C C C C C C C C C C	A COUCOUATE A A A	DDAGGAGG	TAAAACAAAA	CAAGAAGTAT	TATCTTAAGC	300
AGAGTGAGAI	ACIGIAINA	Managaree	111111111111		ma ammama a C	360
ATGTTATTTA	GAAATATGGA	GATAAATAAA	AATAACTGAA	AGTAGGTCGT	TGCTTCTGAG	•
		AAGGTCTCGA				391
CINCINCINATOR	I = C = C = C = C = C = C = C = C = C =	ANGUICICOA	G			

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 351 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GCTTTTGGAG	CTGCTAAAAT	GCCGGATTAC	CTCGGTGCCG	ATCAGCGGAA	GACCAAAGAG	60
GATGAGAAGG	ACGACAAGCC	CATCCGAGCT	CTGGATGAGG	GGGATATTGC	CTTGTTGAAA	120
ACTTATGGTC	AGAGCACTTA	CTCTAGGCAG	ATCAAGCAAG	TTGAAGATGA	CATTCAGCAA	180
CTTCTCAAGA	AAATTAATGA	GCTCACTGGT	ATTAAAGAAT	CTGACACTGG	CCTGGCCCCA	240
CCAGCACTCT	GGGATTTGGC	TGCAGATAAG	CAGACACTCC	AGAGTGAACA	GCCTTTACAG	300
GTTGCCAGGT	GTACAAAGAT	AATCAATGCT	GATTCGGAGG	ACCCACTCGA	G ·	351

- (2) INFORMATION FOR SEQ ID NO:9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GTGATGTGTC	ACCCCAAGTG	CTCCACGTGC	TTGCCAGCCA	CCTGCGGCTT	GCCTGCTGAA	60
TATGCCACAC	ACTTCACCGA	GGCCTTCTGC	CGTGACAAAA	TGAACTCCCC	AGGTCTCCAG	120
ACCAAGGAGC	CCAGCAGCAG	CTTGCACCTG	GAAGGGTGGA	TGAAGGTGCC	CAGGAATAAC	180
AAACGAGGAC	AGCAAGGCTG	GGACAGGAAG	TACATTGTCC	TGGAGGGATC	AAAAGTCCTC	240
ATTTATGACA	ATGAAGCCAG	AGAAGCTGGA	CAGAGGCCGG	TGGAAGAATT	TGAGCTGTGC	300
CTTCCCGACG	GGGATGTATC	TATTCATGGT	GCCGTTGGTG	CTTCCAAACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 432 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

GAATTCGGCC	TTCATGGNCT	AGGAGGAGGA	AGAGGAGTAC	GAGGATGACG	AGGGAGGAGG	60
GGGAAGACGA	GGAGGAGGAG	GAGGCTGCGG	CAGAGGCTGC	CGCGGGGGCC	AAACATGACG	120
ATGCCCACGC	CGAGATGCCT	GATGACGCCA	AGAAGTAAGG	GGGGCAGAGA	TGGATGAAGA	180
GAAAGCCCAC	GAAGAAAAA	GCCTGGTTTT	GTTTTTCCCA	GAATATCGAT	GGACTTAAAA	240
AGGCTCAGGT	TTTTGACCAA	AATACAATGT	GAATTTATTC	TGACATTCCT	AAAATAGATT	300
AAATTAAAGC	AATTAGATCC	TGGCCAGCTC	GATTCAAATT	TGACTTTCAT	TTTGAACATA	360
ATAAATATAT	CAAAAGGTGT	TAAAGAAAAC	TGAATTAAAC	CCAAAATTAT	GTTTTCATGG	420
TCTCTCCTCG	AG					432

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 687 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

CTATTTTACA TGCCCACCAG	ה היים היים היים היים היים היים היים הי	GGCTTCTCAC	TTGTCCACAT	GCTTGCCTGT	60
GTCATATTTG ACTTAAAGCT	TATTTTGACG	GGAAACCAAT	TTGTCCTTTT	TTTGGAAAGG	120
GATGGCACCA CAGATGTGAC	GCGGACAATG	CATTTTGGGA	CCCCTACAGC	CTACGAGAAG	180
GAATGCTTCA CATATGTCCT	CAAGGGCCAC	ATAGCTGTGA	GTGCAGCCGT	TTTCCCGACT	240
GGAACCAAAG GTCACCTTCT	TGACTCCTTT	GCCCGTTCAG	CTTTATGGGA	TTCAGGCCTA	300
GATTACTTGC ACGGGACTGG	ACATGGTGTT	GGGTCTTTTT	TGAATGTCCA	TGAAGGTCCT	360
TGCGGCATCA GTTACAAA	ATTCTCTGAT	GAGCCCTTGG	AGGCAGGCAT	GATTGTCACT	420
GATGAGCCCG GGTACTATGA	AGATGGGGCT	TTTGGAATTC	GCATTGAGAA	TGTTGTCCTT	480
GTGGTTCCTG TGAAGACCAA	GTATAATTTT	AATAACCGGG	GAAGCCTGAC	CTTTGAACCT	540
CTAACATTGG TTCCAATTCA	GACCAAAATG	ATAGATGTGG	ATTCTCTTAC	AGACAAAGAG	600
TGCGACTGGC TCAACAATTA	CCACCTGACC	TGCAGGGATG	TGATTGGGAA	GGAATTGCAG	660
AAACAGGGCC GCCAGGAAGC	TCTCGAG				687

- (2) INFORMATION FOR SEQ ID NO:12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 420 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GAATTCGGCC	TTCATGGCCT	AGTCGGTGGG	TGCCTGTAGT	CCCAGCTACT	TGGGAGGCTG	60
AGGGAGGAGA	ACTGCTTGAA	CCCGGGAGGC	AGAGGTTGCA	GTGAGCCGAG	ATTGTGCCAC	120
TGTACTCCAG	CCTGGGCCAC	AAAGCAAGAA	TCTGTCTCAA	ААААААААА	AAGAAAAGAA	180
AAGAATAAAT	TTCTTTTCCC	CTTGAAGAAG	TTGATTTAGG	CACAGACTCT	GGACTCTGGA	240
TTTCCCACAA	TGTCTTATCT	AGTCAACTCA	AGTATCTGGA	CTACAATTTT	CTTGAAAGCA	300
AAGCCCATAT	ATTAATAATC	TTTACTTGTA	TATAAATATT	CAATAAATCA	TTAAGTAAAT	360
GTGTAGAAGA	ATTTTATGCT	CAATAAGATC	CACCCGATCA	TGCATTTGAA	AATTCTCGAG	420

- (2) INFORMATION FOR SEQ ID NO:13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 379 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - · (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

GAATTCGGCC TTCATGGCCT	AGCACATACT	CTGCTTTTCT	GTCAACATCC	CATTTTGGGG	60
AAAGGAAAAG TCATATTTAT	TCCTGCACCC	CAGTTTTTTA	ACTTGTTCTC	CCAGTTGTCC	120
CCCTCTTCTC TGGGTGTAAG	AAGGGAAATT	GGAAAAAAA	TATATATAT	ATTCTCCTTT	180
TAATGGTGGG GGGCTACTGG	AGAGGAGAGA	CAGCAAGTCC	ACCCTAACTT	GTTACACAGC	240

ACATACCACA	GGTTCTGGAA	TTCTCATCTT	CGAACCTAGA	GAAATAGGTG	CTATAAACAG	300
GGAATTAAGC	AAAATGCTGG	ATGCTATAGA	TCTTTTAATT	GTCTTAATTT	TTTTTCTATT	360
ATTAAACAAC	AGGCTCGAG					379

- (2) INFORMATION FOR SEQ ID NO:14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 528 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GTTCATGGCC TACGGAAAGT	CAGCATGGAT	AACAGACTGA	TGGAACTCTT	TCCTGCCAAT	60
AAGCAAAGTG TTGAACACTT	CACAAAATAT	TTTACTGAGG	CAGGCTTGAA	AGAGCTTTCA	120
GAATATGTTC GGAATCAGCA	AACCATCGGA	GCTCGTAAGG	AGCTCCAGAA	AGAACTTCAA	180
GAACAGATGT CCCGTGGTGA	TCCATTTAAG	GATATAATTT	TATATGTCTA	GGAGGAGATG	240
AAAAAAAACA ACATCCCAGA	GCCAGTTGTC	ATCGGAATAG	TCTGGTCAAG	TGTAATGAGC	300
ACTGTGGAAT GGAACAAAAA	AGAGGAGCTT	GTAGCAGAGC	AAGCCATCAA	GCACTTGAAG	360
CAATACAGCC CTCTACTTGC	TGCCTTTACT	ACTCAAGGTC	AGTCTGAGCT	GACTCTGTTA	420
CTGAAGATTC AGGAGTATTG	CTATGACAAC	ATTCATTTCA	TGAAAGCCTT	CCAGAAAATA	480
GTGGTGCTTT TTTATAAAGC	TGAAGTCCTG	AGCGAGGATG	CCCTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 466 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

0
0
0
0
0
0.9
6

- (2) INFORMATION FOR SEQ ID NO:16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTCGGCC	TTCATGGCCT	AGCGTGATCC	TGGAACGTGC	TCTAGTTCGA	GAGAGTGAGG	60
GCTTTGAGGA	GCATGTACCA	TCTGATAACT	CTTGAAGATA	CAGAGAGAAA	TCCATCTTTT	120
CCCAGGTCTC	CTTCACTGAA	AACAAAAATC	TACTTACATA	CACTGTCACC	TTAGCATCAG	180
AGTCGGATTA	ATGAACTGCG	GAACAAGAGG	TTGTGAGAAT	CTAAGATGGA	ACCTTTCTTT	240
CTTTCTTTCT	TTTTTTTAA	ATTTTGTATT	TTCCATCCAA	CACTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 484 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GAATTCGGCC TTCATGGCCT	AGGGCTCTGC	TTATAAACTT	CAAAGTTACA	CTGAAGGATA	60
CGGTAAAAAC ACCAGTTTAG	TAACCATTTT	TATGATTTGG	AATACCATGA	TGGGAACATC	120
TATACTAAGC ATTCCTTGGG	GCATAAAACA	GGCTGGATTT	ACTACTGGAA	TGTGTGTCAT	180
CATACTGATG GGCCTTTTAA	CACTTTATTG	CTGCTACAGA	GTAGTGAAAT	CACGGACTAT	240
GATGTTTTCA TTGGATACCA	CTACCTGGGA	ATATCCAGAT	GTCTGCAGAC	ATTATTTCGG	300
CTCCTTTGGG CAGTGGTCGA	GTCTCCTCTT	CTCCTTGGTG	TCTCTCATTG	GAGCAATGAT	360
AGTTTATTGG GTGCTTATGT	CAAATTTTCT	TTTTAATACT	GGAAAGTTTA	TTTTTAATTT	420
TATTCATCAC ATTAATGACA	CAGACACTAT	ACTGAGTACC	AATAATAGCA	ACCCTGGTCT	480
CGAG					484

- (2) INFORMATION FOR SEQ ID NO:18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 519 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

GAATTGGCCT	TCATGGCCTA	GGAGATATAC	CTAATGCTAG	ATGATGAGTT	AGTGGGTGCA	60
GCGCACCAGC	GTGGCACATG	TATACATATG	TAACTAACCT	GCACAATGTG	CACATGTACC	120
CTAAAACTTA	AAGTATATAT	ААААААААА	GACNTCGCTA	GTGAGCACGC	TGTATACGAC	180
ATCGCTAATG	AGGACACCAT	ACAAGGCATC	GCTAACGATG	ACGCTGTACA	CAACATCACT	240
AATGATGACA	CCGTATAAGA	CATCGCTAAT	TATGACGCTG	TATAÇGACAT	CGCTAATGAC	300
ACCGTACGAG	GCACGCTAAC	AAGGATGCTG	TACACAACAT	CGCTAATGAG	GACAGTGTAC	360
AAGCCATCGC	TAATGAGGAC	ACTGTATATG	ACATTGCTAA	CGAGGACACT	GTACAAGGCA	420
TTGCTAACGA	GGACGCTGTA	CACAACATCG	CTAATGACAC	CATATAAGAC	ATCACCAATG	480
AGGATGCTGT	ATATGACATC	GCTAATAACA	CCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 342 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GCAGCTCTCA	TCCTCGTCTC	CCCAACACCA	TAACGTCCTC	ATCCCGCCTC	CAACCCACAC	60
CAGGCCGAAG	CCCTCAGAGA	GTGTTTTCAT	CAGGAACCAC	TCTCGAACCT	GAAGGTTGAC	120
TTTAGCGTTT	AGCAACCCAG	GGCGGTGTGT	GTGTTTCCCG	TTTTGTTTTC	TGAGTGGTAG	180
CAGTGATCAC	CGTAATTCCA	TGTAGCCATG	TGCTAGCAGA	ACCCCTGTGT	CCTCACCGTG	240
GCCCGTGTGA	CCCCAGCCGA	CGAGTGCCCG	GCGGAGTCCC	CGCTGCCTTC	CCATGGTCCA	300
GTGAGCTGCC	AGGGCATCAC	ATGACTCTCA	GCTGGGCTCG	AG		342

- (2) INFORMATION FOR SEQ ID NO:20:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 580 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GAATTCGGCC	TTCATGGCCT	AGAGCAGCTC	TGAGGTAGAA	ATTACAACGA	TGAAAAGAGC	60
ACAACGTACA	AAACCAAGAA	AGAGTCTGTT	GTGTGAAGGG	TCATTCGATG	AAGAAGCTTC	120
TGCACAGTCC	TTTCAGGAAG	TGTTAAGTCA	ATGGAGAACC	GGAAATCATG	ATGACAACAA	180
GAAACAGAAT	TTACATGCAG	CAGTAAAAGA	CTCATTGGAA	GAATGCGAAG	TACAGACTAA	240
TCTGAAAATT	TGGAGAGAAC	CACTTAATAT	TGAACTTAAA	GAAGACATTC	TATCCTATAT	300
GGAAAAATTA	TGGCTTAAAA	AACACAGGAG	AACTCCACAA	GAGCAACTTT	TTAAAATGCT	360
ACCAGATACG	TTCCCACATC	CACATGAAAC	CACTGGTGAT	GCACAGTGTT	CTCAAAATGA	420
			CAAAGTACAA			480
AGTAGAAACA	TTAAACATAG	AGAGACCTGA	ACCATCTCTA	AAGATAGTCG	AACTGGATGA	540
TACTTATGAA	GAGGAATTTG	AAGAAGCAGA	ACATCTCGAG			580

- (2) INFORMATION FOR SEQ ID NO:21:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GAATTCGGCC	TTCATGGCCT	AGAAAGATCT	AATTATCATG	GACCTGCGAC	AGTTTCTTAT	60
GTGCCTGTCC	CTGTGCACAG	CCTTTGCCTT	GAGCAAACCC	ACAGAAAAGA	AGGACCGTGT	120
ACATCATGAG	CCTCAGCTCA	GTGACAAGGT	TCACAATGAT	GCTCAGAGTT	TTGATTATGA	180
CCATGATGCC	TTCTTGGGTG	CTGAAGAAGC	AAAGACCTTT	GATCAGTTGA	CACCAGAAGA	240
GAGCAAGGAA	AGGTTTGGAA	AGATTGTAAG	TAAAATAGAT	GGCGACAAGG	ATCGGCTCGA	300
G						301
	GTGCCTGTCC ACATCATGAG CCATGATGCC	GTGCCTGTCC CTGTGCACAG ACATCATGAG CCTCAGCTCA CCATGATGCC TTCTTGGGTG GAGCAAGGAA AGGTTTGGAA	GTGCCTGTCC CTGTGCACAG CCTTTGCCTT ACATCATGAG CCTCAGCTCA GTGACAAGGT CCATGATGCC TTCTTGGGTG CTGAAGAAGC GAGCAAGGAA AGGTTTGGAA AGATTGTAAG	GTGCCTGTCC CTGTGCACAG CCTTTGCCTT GAGCAAACCC ACATCATGAG CCTCAGCTCA GTGACAAGGT TCACAATGAT CCATGATGCC TTCTTGGGTG CTGAAGAAGC AAAGACCTTT GAGCAAGGAA AGGTTTGGAA AGATTGTAAG TAAAATAGAT	GTGCCTGTCC CTGTGCACAG CCTTTGCCTT GAGCAAACCC ACAGAAAAGA ACATCATGAG CCTCAGCTCA GTGACAAGGT TCACAATGAT GCTCAGAGTT CCATGATGCC TTCTTGGGTG CTGAAGAAGC AAAGACCTTT GATCAGTTGA GAGCAAGGAA AGGTTTGGAA AGATTGTAAG TAAAATAGAT GGCGACAAGG	GAATTCGGCC TTCATGGCCT AGAAAGATCT AATTATCATG GACCTGCGAC AGTTTCTTAT GTGCCTGTCC CTGTGCACAG CCTTTGCCTT GAGCAAACCC ACAGAAAAGA AGGACCGTGT ACATCATGAG CCTCAGCTCA GTGACAAGGT TCACAATGAT GCTCAGAGTT TTGATTATGA CCATGATGCC TTCTTGGGTG CTGAAGAAGC AAAGACCTTT GATCAGTTGA CACCAGAAGA GAGCAAGGAA AGGTTTGGAA AGATTGTAAG TAAAATAGAT GGCGACAAGG ATCGGCTCGA G

- (2) INFORMATION FOR SEQ ID NO:22:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GAATTCGGCC TTCATGGCCT AAA	AAAAAGGA TGGTGTGTTG	AGACCAGAAG	CAGCAGCAGT	60
CCTCGACATC AACTACAACT TTC	CTTCGCA CAGTGCATAC	CCTCTGATAT	ACTGAACCCA	120
ACGCCTATCC TCCAGCCCCC TAA	AGAACTAG AGAGGGAGCC	TCACAACATT	CCAATTTAAT	180
CCTTCAGAAA ATTCATTACT CTT	CAAAGTT GTCTGTGGTT	TTGTGACAAC	GATATGACTA	240
GGTGCAAAAT GGCTTGCAAC TAA	ATTAACAA ACATAGAAGC	ATCCAACAAA	CATATACGTG	300
CACAATCTGA GGATTTAGGG ATG	BAAGCTCG AG			332

- (2) INFORMATION FOR SEQ ID NO:23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 239 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GAATTCGGCC	TTCATGGCCT	ACCAGCCTGG	GCGACAGAGC	AAGACTCAGT	CTCAAAACAA	60
AACAAAACAA	AACAAAAAGA	GAAGGCTATT	ATTAACATTC	GAGATAATGT	GCCAGACTGC	120
TTCCATGTAT	TTTCATTATT	CTGTCCCAAA	TCTGGTGAAG	TGGGTATCTG	CACAGCTTTC	180
TCTAGATTGA	ACAACTAGTA	AGGGGGCTGG	CCCTGGAGAA	AGTTACCTCC	TGCCTCGAG	239

- (2) INFORMATION FOR SEQ ID NO:24:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

GAATTCGGCC	TTCATGGCCT	ACTTTTATAT	TGTTATTTTT	GTAAAGCATC	TTTTCTTCAA	60
TTCTTGTTGG	CATTCTGGGC	CAAAATATTT	CAGGTTGGTT	CGGTGTGGAG	TTAAGAAAAG	120
CAGGCGTTTT	AGTGGAGAAA	TGGGGAACAG	CATCAAGAAA	GGCTTTTTTC	CTTTTTTCTT	180
TTTTTTTTGG	AGACAGAGTC	TTGCCCTGTC	ACCCAGGCTG	GAGTGCAATG	GTCTCGAG	238

- (2) INFORMATION FOR SEQ ID NO:25:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

GAATTCGGCC TTCATGGCCT AGATGGATTT CTTAATTGAA GTACTTTTAT AATCACAGTG

ATGTCCTTCC TGAGGGTTAC TTTACTATAC TGTGTATGGT GTATAGCCAC AGAAAGTCAG	.20 .80 !31
(2) INFORMATION FOR SEQ ID NO:26:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
ATTGTCTGTG TCATTTCTTC ATCTGCTTCT ACTGATTTTT TCTGCTTCTG TTTACTCTTC ATTTTTGGACC TATTTTCCCT TATTTGGTGC TTTGCATACA ATTTGTTGG ACTGATCTT TGCTAGTCCT TTAAATGTTT TTAAGCTTTG TTTTGGGATG CAGTTAGGTG ACTCAGAAAC AATCAGAAAC AATTTGATCC TTTTATGTCT CTTAAGCTTT GTTATAGGCA GGACCAGAGC	60 120 180 240 300
(2) INFORMATION FOR SEQ ID NO:27:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
AGGCTGCAGC CAATCTTCAA GTGGCATACA GGCCAAACAT CCATTTATAA TATGGTTGGA ATTCCTAACA CATTTTATCA TAGATCTAAT GCCATACAAT AGGTGGAGGT TAGATCTCA	60 120 180 240 253
(2) INFORMATION FOR SEQ ID NO:28:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
GAATTCGGCC TTCATGGCCT ACAGAGAACT TGTGTTCCGG TTTATTGAAG TTCAGACACT TCTCCTCGCT CCATTCTGTC CACATTTGTG TGAGCACATC TGGACACTCC TGGGAAAGCC TGACTCAATT ATGAATGCTT CATGGCCTGT GGCAGGTCCT GTTAATGAAG TTTTAATACA CTCCTCACAG TATCTTATGG AAGTAACACA TGACCTTAGA CTACGACTCA AGAACTATAT GATGCCAGCT CGAG	60 120 180 240 254

- (2) INFORMATION FOR SEQ ID NO:29:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 211 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

GAATTCGGCC	TTCATGGCCT	ACGAGAAGGA	GTGGAAGAGT	AAGCAGACTA	GGAAAATACA	60
GTACAACCAT	CAGGCAGCAT	TACAGACCCA	CTTAAGGTTT	GTGGCCATGT	GTGGTTGTGT	120
GGTTTTTTTT	CTGGCCATGC	TCAGTTACAT	AGGGGCAAGT	GCAAAAAAAA	CCCCAGAGTT	180
TGTTTTAACT	AGAGCTCTGG	TTTTGCCAAA	С			211

- (2) INFORMATION FOR SEQ ID NO:30:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 521 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

GAATTCGGCC	TTCATGGCCT	AGGATCAGGT	TCGTCCTTTA	GTGTTGTGTA	TGGTTATCAT	60
TTGTTTTGAG	GTTAGTTTGA	TTAGTCATTG	TTGGGTGGTG	ATTAGTCGGT	TGTTGATGAG	120
ATATTTGGAG	GTGGGGATCA	ATATAGGGGG	AAATAGAATG	ATCAGTACTG	CGGCGGGTAG	180
GCCTAGGATT	GTGGGGGCAA	TGAATGAAGC	GAACAGATTT	TCGTTCATTT	TGGTTCTCAG	240
GGTTTGTTAT	AATTTTTTAT	TTTTATGGGC	TTTGGTGAGG	GAAGTAGGTG	GTGGAGCACA	300
GGCACTGCAG	GTCAATGGAG	GTGGAGTACA	GGGACTACAG	GTCAATGGAG	GTGGAGCACA	360
GGGACTAAAG	GTCAATGGAG	GTGGGGCACA	GGGACTACAC	GTCAGTGGAG	GTGGAGTCAC	420
AGGGACTACA	GGTCACTGGA	GGTGGAGCAC	AGAGACTACA	GGTCAGTGGA	GGTGGGGCAC	480
AGAGACTACA	GGTCAGTGGA	GGTGGAGCAC	AGAGACCACA	G		521

- (2) INFORMATION FOR SEQ ID NO:31:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GAATTCGGCC	TTCATGGCCT	AAAATTTCCT	CTAAGTACTG	ATTTAGCTGC	ATTGTATAAG	60
TATATGCTTC	CATTTTCATT	CATTTCCAAA	TATTTTCTAA	TTTCCTTTGC	AATTTTTTTT	120
TCAGGAATTC	GGGCCTTGCT	GTGTTGCCCA	GGCTGGAGAG	CAGTGCCACT	ATCACAGCTC	180
ACTATAAACT	CAAACTCCTG	GGCTCAAGCA	ACCCTCCCAC	CTCCCAACTC	CCCTCGAC	238

- (2) INFORMATION FOR SEQ ID NO:32:
 - (i) SEQUENCE CHARACTERISTICS:

PCT/US98/06956 WO 98/45437

(A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
GGTTTCTTAA AAAAAAAAAA AAAAGGAATT TGATCCAGAG CAATTTTTCT CAATTAAAAT TTGTGATTAC ATTTCTGAGT TTCCATGGCA GAGTTGTGAG TGGGGCTGTG ATATAAATTA ACTTCTCCTA AATTGCTGAC ACCGATAACC CTATAAATTA ACAGATGGCG GAGGGAAATC TCCTGGCTTC TTCCTGGCTA GTTTTTTTTA ATGGTCTGAT TTTTGTAATA GGGGTTTTGA GTCCCAGCCG ACTCGAG	60 120 180 240 257
(2) INFORMATION FOR SEQ ID NO:33:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
GAATTCGGCC TTCATGGCCT AAAGACTTAC GTTATATTT CATATACTCC TTCCCACTCT TAGTGTGTTG TCAATATACA TTTTGTTTTA CATGTAAAAA CACCACAGTA TATTGTTCTT AATTTTGCTT TTAATAGTAA ACTGTCTTAT AACAAATTAT GAAAATGGAA AAAAACATGT CTTTCTTATT TGCCCTCATA TTTATCCATT TAGGCACTCT TCCTTTTTCC CTTTCATTCC AGGTTCTCGA G	60 120 180 240 251
(2) INFORMATION FOR SEQ ID NO:34:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
GAATTCGGCC TTCATGGCCT ACTAACATTT ATGAAAATTA TTTGTAAATA AAATAAGAGG CATTGAGATT AAAATTGGAG ATAAAGTTGC TGATGTGTTG TTTTCCTGAA GTATTTTTT TCTTAATTCT GATCTTTGTT TCCCAATACA ATCACACTCA CACCCTTGCA GTTCAGTTTC CTGACGACTC TCTAGTGTGC CAGATCTGTG TTTCTATGTC AGTGATCTGT TCCCCATCTC TCGAG	60 120 180 240 245

- (2) INFORMATION FOR SEQ ID NO:35:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 383 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GAATTCGCTT CATGGC	CTAC CGAGAAATGG	GTGTGATTGC	TGCCATGAGA	GATGGTTTTG	60
GTTTCATCAA GTGTGT	GGAT CGTGATGTTC	GTATGTTCTT	CCACTTCAGT	GAAATTCTGG	120
ATGGGAACCA GCTCCA	TATT GCAGATGAAG	TAGAGTTTAC	TGTGGTTCCT	GATATGCTCT	180
CTGCTCAAAG AAATCA	TGCT ATTAGGATTA	AAAAACTTCC	CAAGGGCACG	GTTTCATTTC	240
ATTCCCATTC AGATCA	CCGT TTTCTGGGCA	CGGTAGAAAA	AGAAGCCACT	TTTTCCAATC	300
CTAAAACCAC TAGCCC	AAAT AAAGGCAAAG	AGAAGGAGGC	TGAGGATGGC	ATTATTGCTT	360
ATGATGACTG TGGGGG	TCTC GAG				383

- (2) INFORMATION FOR SEQ ID NO:36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 133 base pairs
 - (B) T"PE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

GAATTCGGCC	TTCATGGCCT	ACTGCCGCTC	CTGGTGCTGC	TTGTGTGCTC	GTTTGGTGCG	60
GACCTGGTAC	CTCTTTTGTG	AAGCGGCAGC	TGAGGAGACT	CCGGCGCTCG	CCATGGCCGA	120
CGAAAAGCTC	GAG					133

- (2) INFORMATION FOR SEQ ID NO:37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GAATTCGGCC	TTCATGGCCT	AAGGTAGTCT	AGGCTCATCT	TCATGAGGGA	ACTGAGGTCT	60
TGGGGGGTGG	GGGTTACCCA	AATAGGTTCA	CAGAAGAACC	AGAAATAAAA	CCTGCCTTTC	120
TAGACTGTAA	GTCTTGTGAT	TGTCATCTAA	ATGGTTGTCT	CTATACAGCA	ACTCATCTCT	180
AGAACTGAAA	ATAAGTTTAA	ATCCCTCCTC	CATCCCCAAT	AATTCAAGCT	GCATTTCAGA	240
GAAAACCAGG	ACTTTGGAAT	CAGACAGCAA	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:38:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 336 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

GAATTTGTGC	TCTTAGAGTA	GGAGTTGGAA	CTATAGGACT	TGAAGGCAAG	AGCAGGTATC	60
TTATCAAGGA	TCTACTCACT	CAGTTTCCCT	AAAGCTCTCT	CTCCAGATCG	GATTCAACCG	120
CACATCATGA	CAGATGTTCC	GGCTACATTT	ACCCAGGCTG	AGTGTAATGG	GGATAAACCA	180
CCTGAAAACG	GTCAACAAAC	AATCACTAAA	ATCAGTGAGG	AATTGACTGA	TGTGGACAGC	240
CCCCTGCCAC	ACTACAGGGT	AGAACCCAGT	CTGGAAGGTG	CACTCACCAA	AGGAAGTCAG	300
GAGGAAAGAA	GAAAATTACA	AGGGAACAGA	CTCGAG			336

- (2) INFORMATION FOR SEQ ID NO:39:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 385 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

GAATTCGGCC	TTCATGGCCT	AGTCGGAGAA	GGACATCCAG	GATCTGAAGT	TTGGGGTCGA	60
GCAGGATGTT	GATATGGTGT	TTGCGTCATT	CATCCGCAAG	GCATCTGATG	TCCATGAAGT	120
TAGGAAGGTC	CTGGGAGAGA	AGGGAAAGAA	CATCAAGATT	ATCAGCAAAA	TCGAGAATCA	180
TGAGGGGGTT	CGGAGGTTTG	ATGAAATCCT	GGAGGCCAGT	GATGGGATCA	TGGTGGCTCG	240
TGGTGATCTA	GGCATTGAGA	TTCCTGCAGA	GAAGGTCTTC	CTTGCTCAGA	AGATGATGAT	300
TGGACGGTGC	AACCGAGCTG	GGAAGCCTGT	CATCTGTGCT	ACTCAGATGC	TGGAGAGCAT	360
GATCAAGAAG	CCCCGCCCCA	CTCGA				385

- (2) INFORMATION FOR SEQ ID NO:40:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 245 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

GAATTCGGCC	TTGCTAAAAA	AAAAAAAA	GAGGCAAGTA	ATGTAATATC	CCCCACCTTT	60
GGTTTTCTTA	TCTATAAATA	CTGATTAAAA	AAAAAAGTAC	ACTGTCTGCC	TTATAAGCTA	120
AAATGAGTGA	ATACAGGCAA	AATGCCTTAC	ATTTTACTTT	ACATTTACTA	AGCACCCAGA	180
AAATGTTAAC	TATGATGACA	ATTATGATGA	TGATGATATT	GATATTTTCA	AGGAGGGCGC	240
TCGAG						245

- (2) INFORMATION FOR SEQ ID NO:41:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 247 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

GAATTCGGCC TTCATGGCCT AAATAAAGAT GATTTTTGTG CTTAGCAGTT TAAGGTATAT 60 GGCTGCATAT GCAAAACTCT TTCCCAATTC AGTCGCTACT TTTACTTCTG CCCTTTCTAT 120

CCATCGTCTT CATTTTGTGT GTACAGTGCT GTGTGTAAGC TTATCAGTGT GTTTTTTAT TTGTATCAGT CATGAAAGTC CTGTTAGGTA TCCAGAGTTC TATTTATCTA GCTGTACAGA TCTCGAG	180 240 247
(2) INFORMATION FOR SEQ ID NO:42:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
GGATATGGTA ACTGAGAACC ATTTTCTAGT TGAGATAACT CATGTACAGG GGGGGTCACA TGACTCAACA ACACACAGAG CACAGAAGAG AACCAACAAT CTCGAG	60 106
(2) INFORMATION FOR SEQ ID NO:43:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	
GCGTATTTCC AAGTGTATGT ATTTCTAAAG ATAGATTTTT TAAAAACAAA AAATCTTAAT TTAGATGATA AGCGATTTTT ACCTTTTTTT TTTTTTCAAA GCAACTTGAT CCTGTAAGTT TTGGCATCTT AAGTGGAAAT GTTCATGCAG TTTTGCTGGA TCTTCGCTAT GGCAGTAAAA TGCAATACAG CACTGTGGTT AAGAGTGCAG AACGGAGTCA GTCAGCCTGA ACTCGAG	60 120 180 237
(2) INFORMATION FOR SEQ ID NO:44:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 476 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xí) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT AGGGAGTNGG TGTGTCTGTG CATTTATTTG GATCATGGAA GGTTGTAGAT GTGTATTCT AACTGTAGAT AATGGAGGAC ACATATTTGG GGAGTTTTGA GAGGATGTGT ATGTGTGTG	60 120 180 240 300 360 420 476
17, Ann you date down A first	

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

GAATTCGGCC TTCATGGCCT	AGGCAAACTC	TGCTGGACTT	AACTTCATCA	ATGTAGTGGG	60
CTCTGTTTGT GGGGCCCAGG	CTTTGATGAG	TGGTTCAAAC	CCCATGCTGG	GCTGTAACAC	120
TGGTGCCATA ACTCCTGCAG	GAATAAACCT	GAGCGGCCTT	CTACCCTCAG	GAGGTCTGCT	180
ACCAAATGCA CTGCCCAGTG	CAATGCAGGC	AGCTTCTCAA	GCAGGTGTTC	CATTTGGTTT	240
AAAAAATACT TCAAGTCTCA	GGCCCTTAAA	TCTACTCCAG	CTTCCAGGTG	GTTCACTTAT	300
TTTTAACACT CTGCAGCAGC	AGCAACAGCA	GCTCTCCCAG	TTTACACCAC	AACTCGAG	358

- (2) INFORMATION FOR SEQ ID NO:46:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double(D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

GAATTCGGCC	TTCATGGCCT	AATCATTTTG	ACTTTCAGTG	CTTTCAATGA	CCAGTGGCCT	60
CCAGGGATAA	AGCAACTGCT	TGGTTTGCAG	GGCGTCCTCT	GCGCTGCTGA	GCCATCAGCC	120
			TACAGCCCTG			180
			CCCCAGTGTC			240
					TGTGTTCATT	300
			CGACCGAAAG			353

- (2) INFORMATION FOR SEQ ID NO:47:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 456 base pairs
 - (B). TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

GAATTCGGCC	TTCATGGCCT	AGGGAGCTAC	CAGATGCTGA	AGAAAGGGCC	CTGGCAGACT	60
GGGTTCAAAC	TCAGCCATTG	TCAGCTTGGT	AACCTTGACC	AAGTGTCTTC	CCCTCTGTGA	120
GCCTCAGTTT	TCTCAATAGT	AAGAGGGGAT	AACACACTTA	CCTCTCATAG	CTGTGGACAT	180
			TGTTATATAC			240
CCAGAGGCTG	GGCTTGTGTT	AATTGATTCA	GGAAATTCAC	CAGAGGCCCC	CTAGATGCAA	300
			AGATGAACAA			360
			GTGCTTGCGT			420
		GAGGACGATA				456

(2) INFORMATION FOR SEQ ID NO:48:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 509 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

GAATTCGGCC	TTCATGGCCT	AGCTGCCCCG	CAGCACTTAC	CGGAGCGACC	ATGAGGGTGA	60
CGATTTGAAG	CACACACAGG	CTTCCCGCCA	CCTCCTTTAA	ACCGCCGCTG	GCTTGCCAGG	120
GACAGACGGC	GCGGTTGGCT	CCCCAAAATT	CCGACTGATA	CGCGCCTCGG	CGAGCGAAAG	180
CAAACGCGGG	ATACTCTCGC	GTTCCTGATT	GGCTGCAGTT	GGAATTGATC	ACACCTTTTC	240
AGTTGTACTT	CAATCCTGAA	TTAATCTTTA	AACACTTTCA	AATATGGAGA	TTAATCACCA	300
				TAACATGATT		360
				GACAGCAGAC		420
TGTTCCTTTT	TGGTGGATTC	TTAATGACCC	TTTTTGGTCT	GTTTGTGAGC	TTAGTTTTCT	480
TGGGCCAGGC	CTTTACAATA	ATGCTCGAG				509

- (2) INFORMATION FOR SEQ ID NO:49:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 467 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

GAATTCGGCC	TTCATGGCCT	AAAGCAAGTG	ATTTTCTTTT	TTTTAAAGAC	AGGGTCTCAC	60
			CATCACGGCT			120
GGGCTCAAGT	GATTCCCCCA	TCCCCCACCC	CCCTTCTCAC	CCCCAGATTG	GACTATAGGC	180
GTGTACCACC	ACGCCTGGCA	GAGACCGGGT	TTTGCCGTTG	CCCAAGCTGA	TCTCGAACTC	240
CTGAGCTCAA	GCGATCTGCC	CGTCTCAGCC	TCCCCTAAGC	AAGCATTTTT	AAGTTTCTAT	300
GCTGTTTAAT	TTTTTTTAAC	TGATTAATTT	ATTTGCATTG	TGTGGTCATG	GAATATGTTT	360
TTATGATATT	GGTTGTTTGA	GATTTGGTGA	GTCTTTCTTT	GTAACCTAGT	TAAACCATTC	420
CATATCTTTT	TAAAAGGATG	TATATTCCTT	ATCTGTTAGG	GCTCGAG		467

- (2) INFORMATION FOR SEQ ID NO:50:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 168 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

GAATTCGGCC	TTCATGGCAG	AGTGGAAGGG	GTTGTAAATA	TTAGGAGAGA	GATAATTCTT	60
AGTGCATTTC	TCTGAGGATG	AAGCATGAGA	TGAATCCATG	GCACGAATGG	AACAGCTGGG	120
GAAAGCAGGT	CAGAATGGAT	ATGGATATAA	ATACTGTGAG	TTCTCGAG		168

(2) INFORMATION FOR SEQ ID NO:51:

WO 98/4543'

37		PCT/US98/06956	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:		
	GAAGTAAATT ATTACGATTT CCTTAGGTGG TTAATAAATT ACCATTATTT ACAGATCACG AAATGATAAG TAACTTACCG AAAGTTACAT TATTTAAGTT TTATTGATTG CCAGACTTTT TTCTAGGCTT AAGCAAATGT TGGAAAATAC TTTCAAAAAAT GTTATTCTA CTTGTCAGTG CTGCAGGAGT CTCTCGAG	AATCAAATGT	120 180 228
	(2) INFORMATION FOR SEQ ID NO:52: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 247 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:		
	GCAGAGTCAA TAGATACTTT AAATTGAAGT AAAGAATTAA AAAAGGAAGT GGTATTAGTT TAGCTAGAAA TACAAAGAAA CTTGACTTCT AGGGCAGTAC CTTCCACAAA CAAACAGTTG AGAGTATGTT TATCTTCTTA AAATGTGTGG ACCACTTCAC CTGCTCCTCA CTGGTGCTTT GTCCCCTCCC TACTACCATT	: AAATTCAAGC : GTGCCTTCCC	18 18 24 24
	(2) INFORMATION FOR SEQ ID NO:53:		
	(i) SEQUENCE CHARACTERISTICS: (b) LENGTH 235 base pairs		

- (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

GGCCAAAACA	AAGCTTATAA	AGGTTCCTGC	TCCCAACGTA	ATTACCTCCA	ATCGGCATTT	60
					GATGGACTCG	120
AAATGAACTA	TTTCCAGAGC	GACTTATTCA	GGCATTCTGT	GGAGCCTCCG	TTGCCCTGTC	180
CATCACCGGA	GCTTTTGTAA	TTGCAGCTAT	GCCATTGGCC	TCCGGCAACC	TCGAG	235

- (2) INFORMATION FOR SEQ ID NO:54:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 231 base pairs
 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

GAATTCGCCT	TCGTGGCCTA	AAAAGAAAAA	ATCTAAGGTA	GATTGTGCCT	TTTGTGCCTT	60
TCCTCTGCTC	AAGACCTTTC	AGTGGCTTCC	CACTTCACTC	AGTAAAAGGC	AAAAAGTCCT	120
TTTAATAACC	TACAAGGCAT	TATGTTACCC	ACATTGTCCC	TGCTCCCCTA	CATTGTACTC	180
AAGTCTATGA	TCTTTTTACC	ATTCCTTGTA	CAAAGGATTT	TCACTGGCTG	G	231

- (2) INFORMATION FOR SEQ ID NO:55:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 330 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

GAATTCGGCC TTCATGGCCT					60
GGATAGAGCT TCTAACCAGT	GTATTCCGTC	AAGTAAGATA	ATAACAGCTG	ACCTGCCAAC	120
AGCATTACAG GGAGATTCTT	TGCTCAGCTA	ACACATTTCT	GTTTTTCAAA	ATTGATGCTT	180
AATTGTAGCT GTTATTCTAA	TTTGTGACAT	GGAACTAACT	CATGCTTCAA	TCCTTGATAG	240
AGCAAAACTC AGAACAGGTT	ATGTAAAAAT	ATAGTCTGGC	TTTAGAATTT	GTTAATTCAC	300
CTGCTTTGCC ACAGAAAATG	GAGACTCGAG				330

- (2) INFORMATION FOR SEQ ID NO:56:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 230 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

(BAATTCTAGA	CCTGCCTCGA	GATCTGAACT	ATAATCTTTT	CCATTCTATC	TAGCTCCCAT	60
(CCTAAGTCCT	CTCCTCCTAA	CGTGGAACTC	TCCTAAAATC	TTCTCCTTAT	ACTAGGGTTC	120
(GAGACATGAG	GCTGTCTTTT	TGGGCCTTTT	GCGTTGTCAC	AGTCCCAGAC	CACGGAACAT	180
,	TOTOTOTOTO	CCAGGACAGG	ACATTCTCTC	TTCCCCAGCG	CTCCCTCGAG		230

- (2) INFORMATION FOR SEQ ID NO:57:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

GAATTCGGCC	TTCATGGCCT	AAAGGGAAAG	TGGGAATATA	CACAATGCAN	ACACTAGCCA	60
CATGCAATCA	TGGGAGAACA	GAGCCTACTT	AAAAATCANA	CCCAAGCTTT	GCTTCAGAAA	120
TANGTCGAGT	TCAACCCATT	CGATCATTTA	CGCATGACTT	TGCAAAGGTT	CTCTGGAGGG	180

(2) INFORMATION FOR SEQ ID NO:58:

GGAAGAGGAT CAACCTTCTC TCATACCGCA CAGCAAGGGA ACCAAAGTAA TATAAATCAC TCTTAAAAAT GTCATGTTAC TTTAAGAATA AGCCATACTG CTGGCACCTA GAATATTTTT GTGGGTCCCC ATCTCTGGCT TTTCTTGTTC AAATGGCCCC CAGGCTAAGA GGCAGCTGCT CACATCCCTG CAACAAACAT GTTCTTTCCT TTCTGCATAG CCTTCCATTT CTCGAG

300 360 416

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:	
GAATTCGGCT TCATGGCCTA CTAGACCTGC TCAGTCGTTC CTAATGAATA AAAATCAAGT GCCAAAGCTT CAGCCCCAGA TAACTATGAT TCCTCCTAGT GCACAACCAC CACGCACTCA AACACCACCT CTGGGACAGA CACCTCAGCT TGGTCTCAAA ACTAATCCAC CACTTATCCA GGAAAAGCCT GCCAAGACCA GCAAAAAGCC ACCACCGTCA AAGGAAGAAC TCCTTAAACT AACTGAAACT GTTGTGACTG AATATCTAAA TAGTGGAAAG TCACTCGAG (2) INFORMATION FOR SEQ ID NO:59:	60 120 180 240 289
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
GAATTCGGCC TTCATGGCCT AATTTGAGGC CTGGGTGGAA CTGACAGGTG GAGTTTGAAG GCACATCTGC TAGCTCACAT AGGAAACAGA ATCTCCCAGG GAAAAGACAT AGGACCTCTG ACCTTAACTG AGGTTCTGGA TTATTATGAG AGATTTTCAG AAATGGTCTA ATGGTGTTGG CTTGCTCCAT ACCATAGATT TTAAGAGACA GTAGAGCTTC TGCGATGAGA TTCCCCCCATA AAATAATTAT GGATCTGCAC TGGCAAGCTG GTCTTGGCTC CAAAGACCAA GAGTTGGTTT GTGGTGCTGA TTCTGAACCC TTGCGATGCA ACTGTCTGGT AGTAAAATGG CTTTGTATGG TAAGAAAGCCT TTAATCCTCG AG	60 120 180 240 300 360 382
(2) INFORMATION FOR SEQ ID NO:60:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 196 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
AAAAAAAAC CAAACCCTAT TATTTCATTG ACAGATTGTC TTAGAGTTGA TAGCATTTAA TAATTGAGTA AGTACAGTCC TTCCTTGTTC CCAACGTGCC CTATTTTTC TTTCTTCTCT ACTTTTGCAT ATGCATTTTC CCTCTTTCTT GTTTCTTGGT GAATTCCTAA ACCTTTTTT TCAAAATCAC CTCGAG	60 120 180 196
111	

- (2) INFORMATION FOR SEQ ID NO:61:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 281 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

GAATTCGGCC	TTCATGGCCT	AACCACATTT	TTCTAATTAG	TGTTCTAGAC	TGGCTAGATA	60
AATCAACAAT	GAATCAACAG	TCTTTAAGCA	CATATACAGG	TATGATAACT	CTGTAGTTAA	120
CTCAAATCCT	TGTGCTATGT	ATTATTTTGC	TGCGTAACTC	AGAATTCAGG	AAGCTACCCA	180
CCCAATCAGT	CTTTAGCTGT	TTTATTTCAG	TAACAAGTTT	ATGCAGAACC	TTCCATATCT	240
CTCATAAAAC	CAGAGCATTC	ATAGAACCAG	AAACTCTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:62:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

GAATTCGGC	TTCATGGCCT	AAAAGATTTG	AGCATTTCAA	AATTTTAAAC	ATAAAAGCAT	60
AAACGTAGA	AAAATGAAGG	TGTACTATGA	TATCTTCAGT	TTTATCAGAA	ATGATGTAAA	120
AATTACAAC	TCTTTAAAAA	GTAGTGTTAA	TCATTAAGTT	AGAAAATATA	TAGCTGGGCA	180
TGGTGGCAG	TGCCTGTAAT	CCCAGCTACA	TGGGAAGGTG	AGGTGGGAGA	ATCGCTTGAA	240
CCCAGGCAG	GGAGGATGCA	GTGAGCCAAG	ATCATGCCAC	TGCACCCCAG	CCTGGGTGAC	300
AGAACAAGA	CTCCATNTCAA	GGAAAAAAAA	AAAGAAAAAT	ATATATATGA	ACTTCAGAAT	360
CTGAGGTCA'	TATAGACAG	GTCTTCCCCC	CGTCCTCGAG			400

- (2) INFORMATION FOR SEQ ID NO:63:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

,	GAAACCATAG	TGGCAGATTT	GTAGCAAAAA	GAATCTTTGT	AACCTTCCCT	TTAGATGTCC	60
	TGTGTTATGG	CTTGGTTTTT	CTCAAAGATC	ATAGATTGCA	GTGTTTATCT	CAACTCAGTA	120
	TTTCCTTTGA	AAATTGAACT	TTTCTCTATA	TTTTCCTTTC	CCCCATGCAA	ACTTTTTGAT	180
	TGTTTTTCTG	AAATCATAAT	TCATTTGACT	TACCAGTTAA	TATTGATACA	GGTCTTGCAT	240
	GTTATGAAGT	GCATTGTGTA	CATTATCTTG	TTTAATTTTC	ACAACACTCT	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:64:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

GGTCGCAGAA	GAGTGTCAGA	ACAATCAGTT	AAAGAAGCTC	AAAGAAATCT	GTGAGAAAGA	60
AAAGAAAGAA	TTAAAGAAGA	AAATGGATAA	AAAGAGGCAG	GAGAAGATAA	CAGAAGCTAA	120
ATCCAAAGAC	AAAAGTCAGA	TGGAAGAGGA	GAAGACAGAG	ATGATCCGGT	CATATATCCA	180
GGAAGTGGTG	CAGTATATCA	AGAGGCTAGA	AGAAGCGCAA	AGTAAACGGC	AAGAAAAACT	240
CGTAGAGAAA	CACAAGGAAA	TACGTCAGCA	GATCCTGGAT	GAAAAGCCCA	AGGGGGAAGG	300
TTCCTCCTCA	TTCTTGTCGG	AAACTTGCCA	TGAGGATCCC	TCTGTTTCCC	CCAAACTCGA	360
G						361

- (2) INFORMATION FOR SEQ ID NO:65:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 393 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

GAATTCGGCC TTCATGGCCT	ACTGGGGGAA	GAAGGCTGCT	TTATGTTTAT	TTTTCAAGAC	60
TTTAAAAATA TTTTTTGGTT	GTATTGCACT	AGGAAATCTC	TCCCACCTCT	CCCTTTTCTC	120
TTTCTTTCCC TATACAAAAT	AAAAGGCCCA	CCATAGAGAC	TAGGCGGCCG	AAAGACTAGG	180
AGGGCTGAGG AAAAGAAATA	GGTCTCTGGA	GGTGGAACTA	AAACTGTGCA	GCTGCCTCTT	240
CCTGGCGGTG GATGCTGCTT					300
TGTCAAGGAA AAAGGGGTAG	GAAGGAAGGT	GGAGGGATTG	ATCTAGTACC	AGGGAGAATA	360
TTCCACTGAA CTGTGATTCT	ATGCGGCCTC	GAG			393

- (2) INFORMATION FOR SEQ ID NO:66:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 335 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

GAATTCGGCC	TTCATGGCCT	AATTTGTTAT	TGCTAGAAAA	TACACAGTTT	TGAGATTTTT	60
GGGCATAATT	GGCCTTAGTG	TGTCACTTCT	GCATTAAAAT	ATAGGTTAAT	AATCAGATGA	120
		CTTCTGTACT				180
TTTGTATTTT	TCTGCTTATA	AATTTGTCCT	TAAATCACTC	CCCTCCTTCC	CGCCCCCCCG	240
					CCCCCGCGAC	300
		CCCCCGATCC				335

- (2) INFORMATION FOR SEQ ID NO:67:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

GGTGACATAT TTATTGCTTC	TGTTTTCCAA	CTACATCACT	TCAACTAGAA	GTAAAGCTAT	60
GATTTTCCTG ACTTCACATA	GGAGGCAAAT	TTAGAGAAAG	TTGTAAAGAT	TTCTATGTTT	120
TGGGTTTTTT TTTTCCCTTT	TTTTTTTAA	GAGTATAAGG	TTTACACAAT	CATTCTCATA	180
ATGTGACGCA AGCCAGCAAG	GCCAAAAATG	CTAGAGAAAA	TAACGGGATC	TCGAG	235

- (2) INFORMATION FOR SEQ ID NO:68:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

GAATTCGGCC	TTCATGGCCT	ACCACAATCT	GTTTGCTTTT	CCTCTTTAGA	TTCCAAAAAT	60
AACACCCCAA	AGGCTACCTT	TTCAAATATT	CTACAACATC	TGCAAAAATC	TTTAGTACTC	120
		AAATTCCACC				180
					CCAACTTTAT	240
GTTTCCCAAT						257

- (2) INFORMATION FOR SEQ ID NO:69:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 261 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

GANTTCGGCC	TTCATGGCCT	AGCTGGGCAT	GGTGATGCAC	GCCTGTAATT	CTAGCTACTC	60
					GGGAGGGGTC	120
					GGCAGAGGTC	180
				AGTTAAAGGT		240
	GGGTGCTCGA					261

- (2) INFORMATION FOR SEQ ID NO:70:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:	
GAATTCGGCC TTCATGGCCT AGATTGAATT TTTAACACAG TCCTCTCAGA AACTGACTAA AACAGGTTTT AAAATTAGCA AATATTAAGA ACATACGAGT AAAAGTCAGT TTATTTTAGA TAAGTAGGGA TTTAAATTCA ACAAAAATAA ACACATTTTA AACTCCTATA ATACATTTAT TTAAAATAAA TATTTTTTG CCAAAAGAAG TGTAAGTTCA AAGAGTTAAC ATACAGATTA TATCCTATGA GATATAATAA TATTAGAAAC TGGCTCGAG	60 120 180 240 279
(2) INFORMATION FOR SEQ ID NO:71:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 255 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	
GAATTCGGCC TTCATGGCCT AGTTACATTT ATAATCAGTG AGGAAAATAT AAACTATACA ATAAATGAAA GGGTCATTGG CCAATTGTTT GGAGGGAAAA AATACACCAT GTTCTAAAAT AAATTGTAG TGATTTATTG TGACTTTCAT GCATTTGGAT GATTTTAAAG ATTTTATATA AAAATGAAAC CATAGCCTTA CGAGAAGAAA ATATAAAGAA AAACTTGTAT AGTCTTGGGA GGGGGGATTC TCGAG	60 120 180 240 255
(2) INFORMATION FOR SEQ ID NO:72:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:	
GCGATTGAAT TCTAGACCTG CCTCGAGATC GTCTTTTCTA CCTGGATGAG AGCTCTACCA CTTCTTTCCT TTTGCACACT CATCTCATTC TATGCACTCT TGGGCTGTAA CTGTCATTTC TTTTCCTGTA CACTCGAG	60 120 138
(2) INFORMATION FOR SEQ ID NO:73:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	
GAATTCGGCC TTCATGGCCT ATCACATTGC ATTAAATCTG TAGATTACAT TGAGCATTAT GGACATCTTC AAAATATTTC AAATTTTGAA CAGGAGCATG CTGAAGAGTG TGTTGTTTAA TTTCTATGTA TTTGTACATT TTTTTTCTCT ATCTTATACT GCCGAGACCA GCTCAGTCGG GGAGACCCTA ACCCAACGGC AGCTCGAG	60 120 180 208

(2)	INFORMATION	FOR	SEO	ID	NO:74:
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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

GAATTCGGCC	TTCATGGCCT	ACATGAAACT	GTTAGTCACT	TCATTTCTGT	TTCTTCCCTG	60
TTGCAACAGC	CCATCTTCGT	GGGAAGAACC	AAGCTTTAGG	CTTGGCTCTG	AACAGCCACA	120
AAGTGACTTG	GCTGAGGTCC	TGCCATTTCG	CTCATGCTCA	GCAGGGGGCA	GCAGACCAGG	180
GCAGTTCAGA	GTATGGGGTC	AAACCCAGGT	CCCTGTCCCC	ACTCCACCTG	TGGATTTACC	240
CTGGATTGGG	CAAGCCCCAT	TACTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:75:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

GAATTCGGCC TTCATC	GCCT ACGTGAACAA	GACCCTCCCA	AACCTTCAGG	TAGTCAACCA	60
CCAGCAAGGC CCCCAG	CCACA GACACATCCT	GAAGCTGCTG	CCGTCCATGG	AGGCCACTGG	120
GGGCGAGAAG TCCAGG	CACGC CCATCAAGGG	CCCCAAGAGG	GGACATCCTA	GACAGAACCT	180
ACACAAGCAT TTTGAG	CATCA ATGAGCATTT	GCCCTGGATG	ATTGTGCTTT	TCCTGCTGCT	240
GGTGCTTGTG GTGAT	TGTGG TGTGCAGTAT	CCGGGAAAAG	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:76:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 199 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

GAATTCTAGA	CCTGCCTCGA	AAATACACTG	TTACTATCTT	AATCTCAAGA	GTGTCATTAC	60
AGTGAGAATC	TCATTTAAAA	GCATACCAGT	GAAATTAATA	GCAGTGCTTA	TCAAAGAACA	120
CTGAAATCTG	TGAGAATCTT	TCTAGGAGCA	TTCTTTTCTT	CTTTTAGTTC	CAAGTTCCAG	180
GTAGGCCATG	AAGGTCGAG					199

- (2) INFORMATION FOR SEQ ID NO:77:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 233 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

GATTGAATTC	TAGACCTGCC	TCGAGTTCCA	CGTCCATGGC	CATCCTGAGC	ATGCTGCAGG	60
ACATGAATTT	CATCAACAAC	TACAAAATTG	ACTGCCCGAC	CCTGGCCCGG	TTCTGTTTGA	120
TGGTGAAGAA	GGGCTACCGG	GATCCCCCCT	ACCACAACTG	GATGCACGCC	TTTTCTGTCT	180
CCCACTTCTG	CTACCTGCTC	TATAAGAACC	TGGAGCTCAC	CAACTACCTC	GAG	233

- (2) INFORMATION FOR SEQ ID NO:78:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

GAATTCGGCC	TTCATGGCCT	AAGAATAGAG	AAAACGTTTT	CAGCAGGCTT	CACAGAGAAA	60
CCAAACAATA	TTTAGAATAT	GACAGCATAT	GAAGAGTCTG	CTACTCTCCC	AGTGACCCAT	120
ACTTTCTCTT	CCATCTCTGC	TGGTTCTCTC	TACTACCGAT	TCTTTCTTGC	TGTTCTCCTT	180
CTCCATCACC	GTGACTTCTA	TTGCCTTACT	CTAATGTCTT	GTCTTCTGTG	TTACCCTTCT	240
GTGTGTTTTG	CATTCAGAAC	TCCCCCTCCG	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:79:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 273 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

GAATTCGGCC	TTCATGGCCT	ААААААААА	AAAAATCCCT	GGCTGAGAAC	TATTGGATTA	60
GGGCCTCCNG	TACCTATCTT	TGAGGGGGAA	AGGATGCTAC	CATCAACTTT	TCTGAATGCC	120
AGGAATGCCT	TTTAGTATAG	TTATTTCACT	TACTATTTTA	TAGCATATTT	TAATTGTATA	180
GTAAGCATTG	TGTCTGTTTT	ATGGTAAGGA	AACTAAAATT	GAGAGATTAG	GCTGCTCGTG	240
GTGGCTTATA	CCTTGTAATC	CCAAGCACTC	GAG			273

- (2) INFORMATION FOR SEQ ID NO:80:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

180 240

GAATTCGGCC TTCATGGCCT AGCGAAATGA CGAAATCTAG CCCTTTGAAA ATAACATTGT TTTTAGAAGA GGACAAATCC TTAAAAGTAA CATCAGACCC AAAGGTTGAG CAGAAAATTG AAGTGATACG TGAAATTGAG ATGAGTGTGG ATGATGATGA TACAATAGT TCGAAAGTAA TTAATGACCT CTTCAGTGAT GTCCTAGAGG AAGGTGAACT AGATATGGAG AAGAGCCAAG AGGAGATGGA TCAAGCATTA GCAGAAAGCA GCGAAGGGCT CGAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:81:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:	
GGGAACTGGA GGAAAACCAT CACAAGATGG AGTGCCAGCA AAAACTGATC AAGGAGCTGG AGGGCCAGAG GGAAACCCAG AGAGTGGCTT TGACCCACCT TACGCTGGAC CTAGAAGAAA GGAGCCAGGA GCTGCAAGGCA CAAAGCAGCC AGATCCATGA CCTGGAGAGC CACAGCACCG TTCTGGCAAG AGAGCTGCAG GAGAGGACC AGGAGGTGAA GTCTCAGCGA GAACAGATCG AGGAGCTGCA GAGGCAGAAA GAGCATCTGA CTCAGGATCT CGAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:82:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:	
GAATTCGGCC TTCATGGCCT ACTGTGTTGA CTTGGTGGCT TGCTTGATAA GAAGGTTTTA TGAAGCACAG CAGATATCTC AGCTGCTAAT CCTGTAAGCC CTTTACCCAT TCTCGCTTTT CTCTGCTCTT GCCACATCAT GAATAGATTG GTATACTATT GTGGGATACT TCTAGTTTTA GCACATGATA TAGGTTATGG TTAATGTTCC TTTCCATCTT CCTGGTTACT GATAATGTTC CTTTTCTGTA GATGGGTCTA TTCGATGGAA GAGTTTCAGC TTTGTTCGTG TTATTTCCCT GGGACCTCGA G	60 120 180 240 300 311
(2) INFORMATION FOR SEQ ID NO:83:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:	
GAATTAATCG TAAGAGAACC TCAGCATTGT GCACGATAAG AGAATGTGTC AGTATTTCAG GGTTCTACAT TTTATCTGTA AAATGTGACT TTTTTTTTT TTTATCACAA CAGAAGTAAA	60 120

ATGTTGCTTT GTACCTGGTG TCTTTTATTA AGAATTTACT CCCCCCATTT CTCACAGAGA

ATAACAGTCG GGAGTCATTG TCACAATATA ATAGAAATGT TAGCAACCAG ATTCATGTAA

CTCTCTGTAG TTTGCTGGGT ATTCTCGAG

GGACTAAGTG GTCCTCATGA ATTGCATTAA GACTCTGTAC TGCTCATATT ACACTCCATC

300 329

(2) INFORMATION FOR SEQ ID NO:84:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:	
GAIAGGAITA III.GG.GII AIG.III.GG	60 120 180 240 300 312
(2) INFORMATION FOR SEQ ID NO:85:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:	
GAATTCGGCC TTCATGGCCT AAAAACTTTC AACTTAGAAA AACTAGCAAG GGATTGTTCA CCCTTACCCC AGTGGTTGGT GCTAGAGAAA AAATGGAGGA TGTCTGTTCC ACGCAGACCC TGGTGGTTTA AAACACACAT ATAGATGGCT CTGGGACCAT CAAAATAGCA GCAGCAAAGA GCCACTCCAC CAGCCTCCCC TCCACTCCCC CAGGCCCCAC ACAGCAGAAG GCTCCAGCCA CTTTTTGGAA GCCTGTAGCC TGGCTCCATC TTGCCCTGTG CCACAAATGC CCATGGCCCT CGAG	60 120 180 240 300 304
(2) INFORMATION FOR SEQ ID NO:86:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 291 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
GAATTTTGAA CACTAAAGCT TTGGATACAC AAATTTATAA CATCTTATTT ATAAATCAGT GGTGTACAGA AAGCAGAGAT CCCATAATCA AGCATGGCAA ACATGTTGAA GAATATGCTT ACAATGATTT CTGCTATAGA TTTCATAATG GGGATTCAGA GAAGTAGAGT TATGGTGCTG GTTCACTGCA TTGATTGGAT CAGGCGCTGG AAACTCTCCC TGATAGATTT TATTCTCACC TGTTGGGCAA TTTCCAGAAT ATTCTGCTGT AATTTTACAT GTGGGCTCGA G	60 120 180 240 291

- (2) INFORMATION FOR SEQ ID NO:87:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 423 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

GAATTCGGCC	TTCATGGCCT	AGCTAGAAAA	AAAAAAAAA	AAGCCCTTTT	CAGTTTGTGC	60
ACTGTGTATG	GTCCGTGTAG	ATTGATGCAG	ATTTTCTGAA	ATGAAATGTT	TGTTTAGACG	120
AGATCATACC	GGTAAAGCAG	GAATGACAAA	GCTTGCTTTT	CTGGTATGTT	CTAGGTGTAT	180
TGTGACTTTT	ACTGTTATAT	TAATTGCCAA	TATAAGTAAA	TATAGATTAT	ATATGTATAG	240
TGTTTCACAA	AGCTTAGACC	TTTACCTTCC	AGCCACCCCA	CAGTGCTTGA	TATTTCAGAG	300
TCAGTCATTG	GTTATACATG	TGTAGTTCCA	AAGCACATAA	GCTAGAAGAA	GAAATATTTC	360
TAGGAGCACT	ACCATCTGTT	TTCAACATGA	AATGCCACAC	ACATAGAACT	CCAACATCTC	420
GAG						423

- (2) INFORMATION FOR SEQ ID NO:88:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 172 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

GCGATTGAAT TCTAGACCTG	CCTCGAGCTT	GGGGGGATTA	CAGTTCAACA	AGAGATTCAG	60
GCAGAGACAA ATATTCCAAA	CTATATCAGG	AATTAAGTAG	GCTTTGCTGT	CCTTTTGCAG	120
CTTTGAGTCA ACCCATATGA	GAGTGAATTC	TCCGATCCTG	TACATACTCG	AG	172

- (2) INFORMATION FOR SEQ ID NO:89:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

GAATTCGGCC	TTCATGGCCT	ACCCGTGTTG	TCCAGTATAC	CTTATAACAC	TTAGCCACTT	. 60
CTCCCCACCC	TCCAGAAGGG	GTCCACGTTG	AATTCTGAAT	CATCTTGAAA	ATAAGATTCC	120
AACCACAAAA	AAAATTTAGC	CATTTCTTTA	CTAAAAAAAA	CCAAAAAACA	AATCTGTTTT	180
ATAATCACAG	ATTTTTAGAC	AAATTTCTTG	TATCAGGAAG	AAATACAAAT	TTTGTCATGT	240
TTCTCAAGCA	GTGTCTCGAG					260

- (2) INFORMATION FOR SEQ ID NO:90:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

GAATTCGGCC	TTCATGGCCT	AAACTAAGAT	AAAAATAAAC	AGATAGGAGA	GCTGAATTCC	60
ATTTCAAGTC	CTCATGTATA	TGCTTACAAA	GTTCCAAATT	AAGCTTGGGA	CTGGTTCTTA	120
CATGGCAGGT	AATCCAAACC	TTTTCTATTT	ACTGAAGATT	TTCAGCTCTC	TTACAGAAAT	180
ACACAGGCTA	CCATTAAAAT	TGTAGGGATA	AATTTTAAAT	TGAATTTGAA	AATAAGAGCA	240
AGTACTCGAG						250

- (2) INFORMATION FOR SEQ ID NO:91:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

GAATTGAAAC	ACAGAGTTGT	TCTGCTGATA	GTTTTGGGGA	TACGTCCATC	TTTTTAAGGG	60
ATTGCTTTCA	TCTAATTCTG	GCAGGACCTC	ACCAAAAGAT	CCAGCCTCAT	ACCTACATCA	120
GACAAAATAT	CGCCGTTGTT	CCTTCTGTAC	TAAAGTATTG	TGTTTTGCTT	TGGAAACACC	180
CACTCACTTT	GCAATAGCCG	TGCAAGATGA	ATGCAGATTA	CACTGATCTT	ATGTGTTACA	240
AAATTGGAGA	AAGTCTCGAG					260

- (2) INFORMATION FOR SEQ ID NO:92:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

GAATTCGGCC '	TTCATGGCCT	AATTTCATCT	TTTTTTCCTG	GTGCTGCATA	AACATATATT	60
AAATGTTGTT	ACTGATCCCT	AGTACTGTTG	ATTTGTGACC	CTTCTCCTGA	GGGAGACTAA	120
AGCTGCTTGA	GCTAAAGGCT	TTTGAGACAT	CCCATACGGT	TCCCTGAACA	AAGTTTTCTC	180
TCCTGACCTC	AGTTCTCTTG	ATGACCTTGG	CAAGTGGGCC	CGACTAGTTG	GACACTAATG	240
AGGCATCGTA	ACATGCCGGC	CCCATCCTGT	CCATTCTGTT	CTCTTTGCCA	TCTAGCATTC	300
AGTGTTGTGT	CTTCCTAGTG	GGCATGAAGA	CGGCTTTAAA	ACCATCCACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:93:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 493 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

GCTGAAAATG	CAAAACATGA	AGAAAGTGAT	TGAGGCAATT	CGAGTGGAGC	TGGTTCAGTA	60
CTGGGACCAG	TGCTTTTATA	GCCAGGAGCA	GAGACAAGCT	TTTGCCCCTT	TCTGTGCTGA	120
GGACTACACA	GAAAGTCTGC	TCCAGCTCCA	CGATGCTGAG	ATTGTGCGGT	TAAAAAACTA	180
CTATGAAGTT	CACAAGGAAC	TCTTTGAAGG	TGTCCAGAAG	TGGGAAGAAA	CCTGGAGGCT	240
TTTCTTAGAG	TTTGAGAGAA	AAGCTTCAGA	TCCAAATCGA	TTTACAAACC	GAGGAGGAAA	300
TCTTCTAAAA	GAAGAAAAAC	AACGAGCCAA	GCTCCAGAAA	ATGTTGCCCA	AGCTGGAAGA	360
AGAGTTGAAG	GCACGAATTG	AATTGTGGGA	ACAGGAACAT	TCAAAGGCAT	TTATGGTGAA	420
TGGGCAGAAA	TTCATGGAGT	ATGTGGCAGA	ACAATGGGAG	ATGCATCGAT	TGGAGAAAGA	480
GAGACTCCTC	GAG					493

- (2) INFORMATION FOR SEQ ID NO:94:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 293 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

GAATTCGGCC	TTCATGGCCT	ACACACGGCC	AAATTTGAGG	GCATTCTCAC	ATGTGTTCTT	60
CTCTCAAAAC	CACTGGGGTT	GACAGATCCA	GGAGGCTAAA	AAAAAGTGAC	CTCTATAATT	120
CTTTAAAGGT	GCTATTTTTA	GAANATTGTA	TAATTTATTC	ACAGTATATC	TAAAACAGAA	180
TTAAGGACAA	TTAAAATATC	TTATGTGACA	GCCTTTATGT	CTAGTCACAT	TTGATGAAAT	240
AAAAAACTTC	TGAATCTGAA	TAGAAGTTCT	ACTGTNTCAG	GATTGAACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:95:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

GAATTCGGCC	TTCATGGCCT	AAAAAGACAG	GAAAATAAGT	CTCTTTGTAT	CCTTATTAAT	60
CATTTGAAAT	TATGCTATAA	TATTTTTAA	AACTCACCTG	TTTGGTTCTG	GGTGAAGCAG	120
TTCCTGAAGG	AGTGTTTTGT	CAGAATATAT	TGTTAGGTGA	ATAGAGGGTT	CTGTGGCCAA	180
GTAAGTTTGG	GAAATAGTGG	GTTAGACAAA	GTTGAGTTAC	TGTTGGCCTT	TCAGACCTTT	240
GATACGCTAA	TGTGCATTTT	AAATCTCCAA	GAAGCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:96:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

GAATTCTCCA	GCCTGGGTGA	CAGAGTAAGA	CTCCATCTCA	AAAACAAAAA	AACCCAACAG	60
GATAAAATTT	AATAGGAGTA	AATATAAAGT	TCTACGTTTT	GATTTTAAAA	ATCTAGGTAC	120
TGTATAGTGT	GTATTAGTTG	GGGTTCCTTT	TTTGAAACTT	AATCTTGCCT	ATAAAACACA	180
AAAGAGTTTA	AGATGATATT	GAGACTCCTC	CTGTCCTCAT	TCCTTTTCCT	TCCTAATAGC	240
TCAGTCCTGA	AGCTCTTAGG	TGAGGCAGAA	CAACTCGAG			279

- (2) INFORMATION FOR SEQ ID NO:97:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 307 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

GAATTCGGCC	TTCATGGCCT	AGGATACCTT	CATTTCAAGG	AGCCTCTTTA	CAGTAACTGG	60
GCTAAACATT	TTGTTGTCGT	CCGTCGGCCT	TATGTCTTCA	TCTATAACAG	TGACAAAGAC	120
CCTGTGGAGC	GTGGAATCAT	TAACCTGTCC	ACAGCACAGG	TGGAGTACAG	TGAGGACCAG	180
CAGGCCATGG	TGAAGACACC	AAACACCTTT	GCTGTCTGCA	CAAAGCACCG	TGGGGTCCTT	240
TTGCAGGCCC	TCAATGACAA	AGACATGAAC	GACTGGTTGT	ATGCCTTCAA	CCCACTTCTA	300
GCTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:98:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

GAGCTGTGTC	AGCATCGATC	AGGGGTCTGT	AGACAAAAAT	TCCCAAAGAT	TTGAGACTTT	60
ATTGGGGGAA	ACAGATCACT	GGCGGGGAAT	AAGCCACAGG	CCAAAGGAGG	AAATGCTGGG	120
ACCAGAAGTC	CCGCTTGCCG	CCTTTTGCTA	AAAGTTCCGC	ACGCCTGCTC	GGCGTGGGCG	180
CAAGCATAGT	GTCGTCGGGG	CTCTGCGACG	TCTGATTGGC	TCTCTGCAGT	GCACCGTCGA	240
GGTAGAAGGC	TCAGCTCCTA	GTCGCTCCCA	AATTACTTTG	TTGGTGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:99:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 397 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

60

GCCTCTCTGT	TCTGGTTCTC	TCATTTTATA	AAGTGCCTTC	${\tt TTCCTTTCTG}$	CATTTATAAG	120
TAAACATGAG	AAAAATCTGA	AAAGACTTCT	TCAGGATGTT	TAAGGAAACA	AATGTTGCTT	180
TCCTTGGGTT	GGGTCGTTTC	ATAAGAGTGA	TGTTTGCCAT	AAAACTGGAG	CCTCATAGAC	240
GATCCTGCAG	GGAGGAAGCT	TTCCTTGGTC	ACCTGACTCA	TGTGTTTATA	TATAGTATAG	300
AGGAGAGGTA	TTCCAAAAGA	CCCGTCGCTT	TTCCTGTGTC	CCACAGCTGC	CTGTAGAGTT	360
GTGGCACCAT	AAACTTTAGC	AGCTGGAAAT	CCTCGAG			397

- (2) INFORMATION FOR SEQ ID NO:100:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

GAATTCGGCC AAAGAGGCCT	ATTAATTTAA	TAAAGCCATA	TCATACCTCT	CTTTAACATT	60
GTTAAAAGGA AACTGTGTGT	GTGTATTTGT	GTTAATGTTA	ANTTCTCTTC	ATTTTTGTGC	120
TTGGGGGGCT GTTTATTTGA	GGATGGTCGG	GGGGCGGGTG	GGTCAGACCC	ATCCATCCCC	180
CATGGAAGAC CAGACCCATC	CATCCCCCAT	GGAAGACCAT	TCCCGTGTGT	TCAGACTGGC	240
AGGGTACTTC ·CATAGACAGG	AACATTCTGG	ATGCTCTGAT	GCTGAACACT	ACCAGAATCG	300
GCCATGGATT TGCTTTGAGC	AAACACCCCG	CAGTCAGGAC	TTACTCCTGG	AAAAAGGACA	360
TCTTCTCGAG					370

- (2) INFORMATION FOR SEQ ID NO:101:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

GAAAAAAATA GACAA	AAACTA TGATGTAAA	A ATGCTTAAAA	ACAATTATTC	CTCTCTGCTA	60
ATTTTAATGC AAAAT	FAAATG ATGCTAGCA	TTAATATGTT	TATATGATCT	TGTTTTTAGG	120
ATTGAAATTT TAATA	ACAATG GCCTTTTGT	A ACTATTTTA	CTATTATAGC	TCAGGTGTTT	180
GAATTCTCTC TACCO	CCACCT ATCACCCCT	A TCCCCTAACA	AAGAGTCTGG	CTTCATAAAT	240
ACTGTTGAAT GAAAA	ATTGGT TCTCTAAAT	G GTTAACAAGA	TGAATCCACA	TAAATCATAA	300
TTCAGTACTG AGGAZ	ACCGAA TTTATACCC	A GCGTCTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:102:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

AGTGTTCTGG	AAATAGCTGG	GAGGCCTGTG	TGTTTAGGAG	CGCCTTAAAC	AGTAGGATAT	120
AAGGGCAGAG	AAGTAGCTGG	GAACTGAGAA	GAACTTTGGC	TGTTATTCTA	GTAAGACTGA	180
AAATTTCAGG	TGGGATTTGA	ACAGAGATGT	GTGGTGATCT	GACTTGGTTC	ATTCTGCTGT	240
GGTGAAGAGA	CTGGAGGTGC	GGGGCAAGTA	TGGAAGCATG	GAGACCATTA	ATTTATGGGG	300
GCAATGGTAG	AGGGAAGAGA	AACAATGCTA	TTAACTGGAG	TAGGAGCACA	CAGAGAACAA	360
GCCACTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:103:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 270 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

GCGATTGAAT	TCTAGACCTG	CCTTGAGATC	ACCGAGTGCT	TCATCTCTGA	CAGTTCCTCT	60
GACCAGATGA	CCACAGGCAC	CAACGAGAAC	GCCGACAGCA	TGACATCCAT	GAGCACACCC	120
TCAGAGCCTG	GCATCTGCCG	CTTTACCGCC	TCACCACCCA	AGCCCCAGGA	TGCGGACCGG	180
GGCAAAAACG	TGGCTGTGCC	CATCCCTCAC	CGGGCCAACA	AGAGTGAGTG	CTCAGACCAC	240
CTCCCAGGCA	GTGCCCCCC	GACTCTCGAG				270

- (2) INFORMATION FOR SEQ ID NO:104:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

GAATTCGCCT TC	ATGGCCTA ATATGCTTAT	GAATATGATG	TTGATGGACA	GCTCCAAACA	60
GTTTACCTCA ATO	SAAAAGAT AATGTGGCGG	TACAACTACG	ATCTGAATGG	AAACCTCCAT	120
TTACTGAACC CAA	AGTAACAG TGCGCGTCTG	ACACCCCTTC	GCTATGACCT	GCGAGACAGA	180
ATCACTCGAC TG	GTGATGT TCAATATCGG	TTGGATGAAG	ATGGTTTCCT	ACGTCAAAGG	240
GGCACGGAAA TC	TTTGAATA TAGCTCCAAG	GGGCTTCTAA	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:105:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 291 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

GAATTCGGCC	TTCATGGCCT	ACTTABATCT	TAGATGCTAA	TGGGAGAAAC	TGATTTTTTA	60
			AGATATGCTA			120
			TTAGATACCC			180
			AGAAGCCAGG			240

AAGGAGCAGT AGGTCAAAGC CTGAGGCAGG AGAGAGCTTG ACTGACTCGA G

291

(2) INFORMATION FOR SEQ ID NO:106:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:	
CTGCTGTTGA TGGAGTCAGA CAGTAAACAC GTGGCTTGGA TAACACCCAT CATCCTATGA AGAATATAGG GAGTACTTGT TCTCTGTTGA TTCAACTTTT ATGTCTCCAG TAACATTGCG CTTATGAAGG TACCTGTATT TGTATGGACT CTGAATAAAG AAGAATTCAT TTGTTTAGCA AGTATTAGTT CAGCAACCAC TGAGAAACAA GCACTCGAG	60 120 180 240 300 339
(2) INFORMATION FOR SEQ ID NO:107:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:	
CANADATTAT CTGCCTCCTG ANATGANATC ATTTTCACT CCTGGNANAC CTANAACAAC CANTGTTCTA GGAGCTGTTA ACANGCCACT TTCATCAGCA GGCAAGCAAT CTCAGACCAA	60 120 180 240 300 360 420 439
(2) INFORMATION FOR SEQ ID NO:108:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 298 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGAGAGGCA GGTCTAGAAT TCCAAATGTA AAATTTACTA AGGCTTTTCA TGTGGAAGTA GAATGCATAT ATCTTTCTTG ATATAACAAA TGAATTTGGT TGTAGCTAAC GTGTTGTACT AGTAAAGGTC CACTGCTAA ACTTTTTCTT TTTTGTTGAG GTATAGACAG TAGAGTGATA CCGATACATG AGGAAAATGA GAACTGGAAT GCAGGCCAAA AGCTGGTCCT TTCCAGATGA ATGTAACCAA GACTCGAG	60 120 180 240 298

- (2) INFORMATION FOR SEQ ID NO:109:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

GAATTCGGCC	TTCATGGCCT	ACACTCTCAA	ATATGTGGCC	TTTAACGGGA	CCAAAGTAGG	60
AAAGCAGATA	GTGGAAAACT	TCTCTCCCAA	TCAGACCAAG	TTCACGGTGC	AAAGAACGGA	120
CCCCGTGTCA	CGCTACCGCT	TTACCCTCAG	CGCCAGGACG	CAGGTGGGCT	CTGGGGAAGC	180
CGTCACAGAG	GAGTCACCAG	CACCCCGAA	TGAAGCTTAC	ACCAACAACC	AAGCAGACAT	240
CGCCACCCAG	GGCTGGTTCA	TTGGGCTTAT	GTGCGCCATC	GCCCTCCTGG	TGCTGATCCT	300
GCTCATCGTC	TGTTTCATCA	AGAGGAGTCG	CGGCGGCAAG	TACCCAATAC	TCGAG	355

- (2) INFORMATION FOR SEQ ID NO:110:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 407 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

GAAAAAACTG	GGTCAAAGAA	TTACGGAAAA	TGTTGGGAAA	TGAAATCTGT	TTATGTATAG	60
			GACATGTTTC			120
ATGCAGAATC	TGTGGGAGCA	AAACATTATC	ATACTTCAGC	CAAACAGAAC	AAAGGAATTG	180
AGGAACTCTT	TCTTGACCTT	TGTAAAAGGA	TGATAGAAAC	AGCACAAGTG	GATGAGAGAG	240
CAAAAGGCAA	TGGCTCTAGT	CAGCCGGGAA	CTGCAAGGCG	AGGTGTACAG	ATTATTGATG	300
ATGAACCTCA	AGCCCAGACC	AGTGGTGGAG	GGTGCTGTTC	TTCTGGATAA	CTGTTCACGC	360
CTAAGAAATT	AAAAGACAGA	ACAAAACTGT	GGATCATTGC	CCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:111:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 395 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

GAATTCGGCC	TTCATGGCCT	AAAAGAAAGT	ACATTAAAGC	AACTTGCATC	TCAAAACAAT	60
ACATTTCTCT	GGTTGAAGTT	TTAGTGAAAA	TCGATTTATT	CCTCCTCTGA	GTTTTACCCA	120
ATGGGTAAAG	TTGTCTAAAT	ATGGGATTCC	TTAGAATCCA	TCCTCCTTCC	CAAGCATTTC	180
CCCATGTTTC	CTTCCACCCC	CAAATTCTTA	CCCCATTTCA	GGCAGAGCTG	AGCAAACATA	240
AGCCTTCTCT	GAAGTATTGA	GGGAAAGTCT	GCTAAACGGC	TAAACTACTT	AAGGAGCTAA	300
CAGAAAAGGT	TGTATCAGAG	AAACAGTGGA	GAAACACAGG	TTTCTAATTA	TATCTGGCAC	360
TGGAGAGAAT	GTCAAAGGTA	TTGGCCCAGC	TCGAG			395

- (2) INFORMATION FOR SEQ ID NO:112:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

GAATTCTAGA	AACTACAGTA	GTGGGACACA	TAACATAGAA	GTAATCGTCC	AGGATTCTGC	60
TGGAAGAAGT	AAGAGTGTTC	ACCACATATT	TTCTGTTCAA	GAGAATAATC	ATCTCAGTTT	120
TGATCCCCTG	GCATCATTTA	TTCTCCGTAC	TGATCACTAC	ATCATGGCCC	GGGTCCTTTT	180
TGTGCTGATT	GTGCTGAGCC	AGCTCACCAT	TCTCATTATT	TTTAGATATC	GAGGATACCC	240
AGAGCTTAAA	GAACCTTCAG	GGTTTATAAA	TCTGACCTCA	TTTTCTCTTC	AATGTCTCGA	300
G						301

- (2) INFORMATION FOR SEQ ID NO:113:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

GAATTCGGCC T	TCATGGCCT	AAGCATGCTG	TCTTGTGATG	GTGATTTCAT	GTGTTTTCTG	60
CATGGGATTA T	TAACGGCAT	CCATTTTCTT	GGGCGTCAAG	TTGTTGCAGG	TGTCCACCAT	120
TGCGATGCAG C	AGCAAGAAA	AACTCATCCA	ACAAGAGAGG	GCACTGCTAA	ACTTTACAGA	180
ATGGAAGAGA A	GCTGTGCCC	TTCAGATGAA	ATATTGCCAA	GCCTTCATGC	AAAACTCATT	240
AAGTTCAGCC C	ATAACAGCA	GTCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:114:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

GAATTCGGCC	TTCATGGCCT	ACCCGCATCC	CAGCTCTATT	TAAAAAAATA	AAGAAGAAGA	60
TAATTCATTT	CCTTAAGCTG	CCCTTACACT	ATTAGTCAGG	AATGTTTGTG	TTCACTTCCA	120
CTACATACCT	TACGATCTCT	TTTGCTTTGC	TTTTTTTCAG	TCAAGTCTCT	ATTTATGAGG	180
TGGACAAGCA	AGATTGTCGC	AAATTTTGCA	CTACTGGCAT	CGATGGAGCC	ATGACAATTT	240
GGGATTTCAA	GACCCTCGAG					260

- (2) INFORMATION FOR SEQ ID NO:115:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 259 base pairs

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

GAATTCGGCC	TTCATGGCCT	AAACATTTTC	TGAAAAACGT	GATAGAAAGA	AGGAGGAGCT	60
GTTTCTAGGA	GGGAAATAAA	TAATTTGGCA	GGAGACTTTT	TGAACTAGAT	ATCTATTGAA	120
TAACAAAGTG	ACAATGTTCC	CCATCCTCTC	ATTTCCATTC	CCAATTTTAC	TTCTCGTCCC	180
AATTCAAATC	ATTCTTACTT	ATGATCGGCG	CTATGTCAGT	GCCTCTCAGC	TGGTCTTCCC	240
AGACCCAGTC	ACCCTCGAG					259

- (2) INFORMATION FOR SEQ ID NO:116:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

GAATTCGGCC	TTCATGGCCT	AATTACATTT	ATGCAACCAA	GCTATCAAAA	GGACTGGCTG	60
TCCTTGGGAA	TGAAACGTAA	CAAAATCGTC	AATAGAGTAT	TATTGGAAAA	GATTGTTTTC	120
AGTCATGAAC	TAGCTATTTA	AATGAGAAAA	CAAATGTAAT	GATGCTTTCT	GTCATGATTT	180
TATAAATAAA	TGTCAATTGT	AGGAAATTGG	AAAAATAAAT	GAAAAAGAAA	AACTCGAG	238

- (2) INFORMATION FOR SEQ ID NO:117:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

GAATTCGGCC	AAAGAGGCCT	ACCCTAGACC	TGTTTTCTGT	TCTCTACTCT	TGAAATGCTA	60
ATGACCTTCA	TGACCAGAGT	CCGCTATTGC	AGTTTGTGGT	TGACAGGCAT	CTCTCACTCA	120
CTGTGCTGCA	ACTCAACTCT	TTATCTTCAA	CCAAACAGGG	CCTCCCCGCA	GCTTTCCCAC	180
TGCCACTCAG	TGGCACTCCA	TCCAGGGTTT	CCAAAGTGTA	AGACCCCGGA	ATTTATCTTT	240
GACACTTCCA	TCTCCCTCCA	CCCCTCATCC	AATTCATCA			279

- (2) INFORMATION FOR SEQ ID NO:118:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 656 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

GAATTCGGCC	AAAGAGGCCT	AGTTATAATG	ATGGAAGAAG	TGGAAAAACT	TTGTGATCGG	60
CTTGAACTGG	CAAGCTTACA	GTGCTTGAAT	GAAACACTCA	CATCATGCAC	AAAAGAATAG	120
GAAAGGCTGC	TTTGGAAAAA	CAGATAGAAG	AAATAAATGA	GCAAATCAGA	AAAGAGAAAG	180
AGGAAGCTGA	GGCTCGTATG	CGACAAGCAT	CTAAGAACAC	AGAGAAATCA	ACTGGTGGAG	240
GTGGAAATGG	AAGTAAAAAT	TGGTCAGAAG	ATGATCTACA	ATTACTAATT	AAAGCTGTGA	300
ATCTGTTCCC	TGCTGGAACA	AATTCAAGAT	GGGAAGTTAT	TGCTAATTAC	ATGAACATAC	360
ATTCTTCCTC	TGGAGTCAAA	AGAACTGCCA	AAGATGTTNT	TGGCAAAGCA	AAGAGTCTCC	420
AAAAACTTGA	CCCTCATCAA	ANAGATGACA	AAATATAAA	GGCATTTGAT	AAGTTCAANA	480
AAGAACATGG	AGTGGTACCT	CAAGCAGACA	ACGCAACGCC	TTCAGAACGA	TTTGAAGGTC	540
CATATACAGA	CTTCACCCCT	TGGACAACAG	AAGAACAGAA	GCTTTTGGAA	CAAGNTTTGA	600
AAACATACCC	AGTAAATACA	CCTGAAAGNT	GGGAAAANAT	AGCAGAAAGT	CTCGAG	656

- (2) INFORMATION FOR SEQ ID NO:119:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 523 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

GAATTCGGCC	AAAGAGGCCT	AGAGACAAAT	AGGTGATACT	GAATTTTATA	CTGTTTTCTA	60
CTTTTCCATT	AAAACATTGG	CACCTCAATG	ATAAAGAAAT	TTAAGGTATA	AAATTAAATG	. 120
TAAAAATTAA	TTTCAGCTTC	ATTTCGTATT	TCGAANCAAT	CTANACTGTT	GTGATGAGTG	180
TATGTCTGAA	CCTGTAATTC	TTAAAANACT	TCTTAATCTT	CTAGAAGAAA	AATCTCCGAA	240
GAGCTCTCTC	TAGAAGTCCA	AAATGGCTAG	CCATTATGCT	TCTTTGAAAG	GACATGATAA	300
TGGGACCAGG	ATGGTTTTTT	GGAGTACCAA	GCAAGGGGAA	TGGAGCACTT	TAAGGGCGCC	360
TGTTAGTAAC	ATGAATTGGA	AATCTGTGTC	GAGTACCTCT	GATCTAAACG	GTAAAACAAG	420
CTGCCTGGAG	AGCAGCTGTA	CCTAACAATA	CTGTAATGTA	CATTAACATT	ACAGCCTCTC	480
AATTTCAGGC	AGGTGTAACA	GTTCCTTTCC	ACCAGATCTC	GAG		523

- (2) INFORMATION FOR SEQ ID NO:120:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 111 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

GAATTCGGCC AAAGAGGCCT AATTTCTTC TGTGATATGA GAATTTCTTT TCTTTCAGCA 60 GCTTTACCTG CATTTGGCTT TGGCTTTTGC AATCGGCCCC TCATTCTCGA G 111

- (2) INFORMATION FOR SEQ ID NO:121:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 579 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

GAATTCGGCC	AAAGAGGCCT	AACCGCGGCC	GCTACTTCGG	CCTCTTTGGA	AAAAAAAAAG	60
TGAAAGAAAA	NATCACAATA	CAGGGAAAAG	TGAGCTAAAA	ATCCCGGCAT	TAAAAAGCCC	120
TTGATGTGGT	CCTGAATCGG	CTATTTCTAT	CTGTTCCCTG	AGCCTAACCT	CAGCGCTGGC	180
CTCTCTAAAC	CTCTTTTCAG	TCCTCTCATT	TTGAAAACAG	GGCCCATTAC	ACATTCTCTG	240
AAAGCTTGCT	GAGTGATTTA	ACCACATAGT	CTAGGGGAGG	CACTCATCAA	ACATAAGGCC	300
TCTCTTTTTG	ATTTTTATCC	TATAGTGGTA	TCTATCTAGA	GGCTGGTGAA	GACAGTGTGG	360
TGGAAGGAAA	GTGGGAAGGA	TACACTGAAA	TAGGACATAG	ACGTAGAGGG	GAGTCGATGG	420
TCATCTGGCT	TGATAGGGAA	AGTTAGAGAG	CTCTCCTGAA	CCACAGTTAC	AGAGCTTGGG	480
ATTATAACAC	ACACAGCCCC	AGAGAAAACA	CTTTGTTTAC	CATATTTCCT	CTTCTGCTGG	540
GGCTCTGGCA	CCTTAATTGG	TCAAAAGGCA	GCACTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:122:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

GAATTCTAGG	AATGGGTCGG	GAAGTTGAGA	ATCTTATATT	AGAAAATACA	CAACTGTTGG	60
AAACCAAAAA	TGCTTTGAAC	ATAGTGAAGA	ATGATTTGAT	AGCAAAAGTG	GATGAACTGA	120
CCTGTGAGAA	AGATGTGCTG	CAAGGGGAAT	TGGAGGCTGT	GAAGCAAGCC	AAACTGAAAC	180
TAGAGGAAAA	GAACAGAGAA	TTGGAGGAAG	AGCTTAGGAA	AGCTCGGGCA	GAAGCTGAAG	240
ATGCAAGGCA	ACTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:123:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 421 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

GAATTCCTGT	AACTCGGAAA	AGATATCAGA	GGAATGTTCG	TGGCATCAGA	GAGAAAGATG	60
AGAGCTCACC	AGGTGCTCAC	CTTCCTCCTG	CTCTTTCGTG	ATCACCTCGG	TGGCCTCTGA	120
AAACGCCAGC	ACATCCCGAG	GCTGTGGGCT	GGACCTCCTC	CCTCAGTACG	TGTCCCTGTG	180
CGACCTGGAC	GCCATCTGGG	GCATTGTGGT	GGAGGCGGTG	GCCGGGGCGG	GCGCCCTGAT	240
CACACTGCTC	CTGATGCTCA	TCCTCCTGGT	GCGGCTGCCC	TTCATCAAGG	AGAAGGAGAA	300
GAAGAGCCCT	GTGGGCCTCC	ACTTTCTGTT	CCTCCTGGGG	ACCCTGGGCC	TCTTTGGGCT	360
GACGTTTGCC	TTCATCATCC	AGGAGGACGA	GACCATCTGC	TCTGTCCGCC	GGTCACTCGA	420
G						421

- (2) INFORMATION FOR SEQ ID NO:124:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 123 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

GAATTCTAGA	CCTGCCTCGA	GAAAATGAAA	GTCTTTTCTC	AAAAAACTTC	TTCCCAGGTC	60
TGTGAAGCAG	CACAGTGGCC	CCTTCTGGCT	CTCACCTTGT	ACCTCGTCCT	TGTTTGCCTC	120
GAG						123

- (2) INFORMATION FOR SEQ ID NO:125:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

GAATTCGGCC	TTCATGGCCT	AAGATGGCGT	CTCACAAATC	ATATGCCAAT	TACTGAAATT	60
GGAGGTGAAA	ATATTCTAGA	TTTATTGTGG	GATATATA	TTTTATGGTG	TATGGCTCCC	120
AACACCACAT	GCCACTGAAC	TATATAAAAC	TTTATGTCAG	AACACTTACT	TGTGTCATAT	180
GTAACCCTCT	TGCAAATAAT	ATTCCCTTAC	TACAGATCTG	TCCCACTGTT	CTCAGAAAAT	240
AAAACATGGG	AACGTTGGAA	TGTCTCCTTG	CTATAAGATA	TTGAATTCTA	GACCTGCCTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:126:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 508 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

GAATTCGGCC	TTCATGGCCT	ATGAAGACAA	AGCTAACTTA	CAAAAGCAGC	TGGTTGAAGC	60
AATGAATACG	CAATTAGAAC	TTTCAGAACA	ACTTAAATTT	CAGAACAACT	CTGAAGATAA	120
TGTTAAAAAA	CTACAAGAAG	AGATTGAGAA	AATTAGGCCA	GGCTTTGAGG	AGCAAATTTT	180
ATATCTGCAA	AAGCAATTAG	ACGCTACCAC	TGATGAAAAG	AAGGAAACAG	TTACTCAACT	240
CCAAAATATC	ATTGAGGCTA	ATTCTCAGCA	TTACCAAAAA	AATATTAATA	GTTTGCAGGA	300
AGAGCTTTTA	CAGTTGAAAG	CTATACACCA	AGAAGAGGTG	AAAGAGTTGA	TGTGCCAGAT	360
TGAAGCATCA	GCTAAGGAAC	ATGAAGCAGA	GATAAATAAG	TTGAACGAGC	TAAAAGAGAA	420
CTTAGTAAAA	CAATGTGAGG	CAAGTGAAAA	GAACATCCAG	AAGAAATATG	AATGTGAGTT	480
AGAAAATTTA	AGGAAAGCCA	CCCTCGAG				508

- (2) INFORMATION FOR SEQ ID NO:127:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 713 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

GAATTCGGCC	TTCATGGCCT	AGCGGCAGTC	CAGATCACGG	TTACTGTGAC	CTGACTGGAG	60
				TTGTTCTTTG		120
CTACTGAGTC	TTACTGGATT	CTGCCAAACG	TTAAACCCTT	CAGTCCTTCT	GTAGGTCGGG	180
CTTCACATAA	AGCAGTTTTA	CACGGGAAAT	TTATGTGGGT	GATTGGTGGA	TATACTTTTA	240
ACTACAGTTC	TTTTCAAATG	GTCCTAAATT	ACAATTTAGA	AAGCAGTATA	TGGAATGTAG	300
				TCTTGCTTTA		360
				CCCCAAAGGG		420
				CAGGGGAGGA		480
				AAAGAGGCTT		540
CCCTTCCCAC	CCCAGCCCTT	GNTGGTCCCT	AGGCCAAGCC	ACCAAGTGAA	ACCTTCCAGG	600
	000		11000110000			660
CACAGACCCA	CGGAGCTCTC	TGTGTTTGGC	CTCTCACACA	CACACAACTC	GAG	713

- (2) INFORMATION FOR SEQ ID NO:128:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:

GAATTCGGCC AAAGAGGCCT	AAGAGATTCA	GGACCTGCAG	AGTCGCCAGA	AGCATGAAAT	60
TGAATCTTTG TATACTAAAC					120
TCCTCTGTCG GGGAGAAGAA					180
CAGCTCATTG GGCAATAAAA					240
TTCAGTCTTA CACCCCCAAC					277

- (2) INFORMATION FOR SEQ ID NO:129:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 670 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

TTCATGGCCT	AAGGCTACCG	ATATTGGAGA	AGCTAACTAT	GGGTTTTACC	60
GCTTTTTGGT	GAAATCAGTT	GTTATACTAA	TAAGCTTTCC	TCTAATTGAT	120
					180
				CCAGTTTCCT	240
					3.00
AAATTTAGGC	CATGAAGGCC	GAATTCGGCC	TTCAIGCCI	ACTCAGCCIC	
TGGGACTACA	GGCGTGTGCC	ACTATTCTCA	GCTGATTTTT	GTATTTTTAG	360
					420
					480
					540
TTTTTAAGAC	CTCTTCCTGT	AAGCACTGGA	TAATCTACTT	CIAGIAAIGI	
ATATNTTGAA	TTCATATGTT	TTCAATCAAC	CTGTTGCAGT	TTATATTTCA	600
					660
CCITITOTICAL	01111101110				670
					0,0
	GCTTTTTGGT GTTTTTGTGT TTTTTCTTCA AAATTTAGGC TGGGACTACA TTTTTGCCAT GGCCTCCCAA TTTTTAAGAC ATATNTTGAA	GCTTTTTGGT GAAATCAGTT GTTTTTGTGT TTGTATTTGC TTTTTCTTCA ATGTATTTTC AAATTTAGGC CATGAAGGCC TGGGACTACA GCCGTGTGCC TTTTTGCCAT GTTAGTTGGC GGCCTCCCAA ATTGCTGTGA TTTTTAAGAC CTCTTCCTGT ATATNTTGAA TTCATATGTT	GCTTTTTGGT GAAATCAGTT GTTATACTAA GTTTTTGTGT TTGTATTTGC GGGTTTTGTC TTTTTCTTCA ATGTATTTTC TTAAAGTAGT AAATTTAGGC CATGAAGGCC GAATTCGGCC TGGGACTACA GGCGTGTGCC ACTATTCTCA TTTTTGCCAT GTTAGTTGGC CAGGATGGTC GGCCTCCCAA ATTGCTGTGA TGACAGGCGT TTTTTAAGAC CTCTTCCTGT AAGCACTGGA ATATNTTGAA TTCATATGTT TTCAATCAAC	GCTTTTTGGT GAAATCAGTT GTTATACTAA TAAGCTTTCC GTTTTTGTGT TTGTATTTGC GGGTTTTGTC TCTTTTGTTT TTTTTCTTCA ATGTATTTC TTAAAGTAGT CTAGCTTTAC AAATTTAGGC CATGAAGGCC GAATTCGCCC TCAGATTTTC TTTTTGCCAT GTTAGTTGGC CAGGATGGTC TCTCTCCAA TGGCCTCCCAA ATTGCTGTA TGACAGGCGT GAGCCACCCC TTTTTAAGAC CTCTTCCTGT AAGCACTGGA TAATCTACTT ATATNTTGAA TTCATATGTT TTCAATCAAC CTGTTGCAGT	TTCATGGCCT AAGGCTACCG ATATTGGAGA AGCTAACTAT GGGTTTTACC GCTTTTTGTT TTGTATTTGC GGGTTTTTCCT TCTTGTTTTT TTTTTCTTCA ATGTATTTTC TTAAAGTAGT TTCATGGCCT ACTCAGCCTC TGGGACTACA GGCGTGTGCC ACTATTCTCA GCTGATTTTT TCTTGTTTTT TTTTTTGCCAT GTTAGTTGC CAGGAGGCC GAGCACCCC GCTGATC GGCCTCCCAA ATTGCTGTGA TGACAGGCGT GAGCCACCCC GCNTGGCNTG TTTTTAAGAC CTCTTCCTGT AAGCACTGGA TAATCTACT CTAGTAATGT ATATNTTGAA TTCATATGTT TTCAATCAAC CTGTTGCAGT TTATATTTCA CCTTTTGACA GTTTAAGTAC AGATAGTCC AGCAGTTCT GAGACCATGT CCTTTTTGACA GTTTAAGTAC AGATAGTCC AGCAGTTCT GAGACCATGT CCTTTTTGACA GTTTAAGTAC AGATAGTCC AGCAGTTCT GAGACCATGT CCTTTTTGACA GTTTAAGTAC AGATAGTCC AGCAGTTCT GAGACCATGT

(2) INFORMATION FOR SEQ ID NO:130:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 462 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (2) 10102001. 2400
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

GAATTCGGCC	TTCATGGCCT	ACGACTCTGC	TCTATTTACC	ACTATCAGGC	CAATCCTCCT	60
	TAATATTTAG					120
TGGATGCGAC	TAAGATTCTT	AAGTCTGGTT	TCTAAGAGCT	TCTTCAATGT	CTCCAACTAT	180
	TCATGTTTGA					. 240
AGCTGAACAG	AGATTTTCAG	ATGACTCCCA	AACTATCTGC	AACACATCAG	CCCTATTAAC	300
TCTTCTCAGA	ATGCTCATAC	AGAAGCCATG	CCAGTGCACA	AAAGCCACTT	CTGACACCTG	360
GCCCTGTCTG	ACTCATGGAT	TTCTTCCAGG	ATTGCTCTTT	CTATCTGCTT	TAAACCTCCT	420
TGTCAATTGA	CTTTCCTTGG	CTCCCAACCC	ACTTTACTCG	AG		462

- (2) INFORMATION FOR SEQ ID NO:131:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 535 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

GAATTCGGCC	TTCGTGGCCT	ANATATTCTA	AGCATTCAAT	TTGTCAGTTT	CTGAGATTTT	60
CTTTCCATCT	TAGTTTTTTA	GAAGTCAGAA	AATGACTTTT	CACATTCAGT	TAGGGTATAT	120
		ATGAGCTGAG				180
		TTAAAGGGTT				24.0
		GTCTGTTTGT				300
		TTTGGCACAG				360
AAATCCCTTG	GTTTAGTGAT	TCTTAATGAT	GTTTATTTTG	GAAAGTCATG	GACCTGAATT	420
		CCATATACCT				480
AGGAAGTTCA	AGGTAGGGAA	AACAAGCTAA	AAATCCCAAC	TTATTTCATC	TCGAG	535

- (2) INFORMATION FOR SEQ ID NO:132:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 401 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

GAATTCGGCC TTCATGGCCT	AAGGGGATCA	TCAAAGATGT	TGGACACCTT	GTGTTCAAAT	60
CTTGGTTCAG GTGCGGCCTG					120
CCAGTGGAGA AGATGTCATC					180
TTGGACTTTT CTTTTGGTTI					240

300

- - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 497 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

GAATTCGGCC	TTCATGGCCT	AGTAGATGAA	CTAGAAGATG	GATAAACGAA	GATAGATAAA	60
ATGAAGAAAA	ACAAAAGTCA	AGGAGAACTC	AGGCGTCCAA	GAGTGTGTAA	ACAACTTCTG	120
GTGTGAGACG	CGCTACATTG	CGCTAAATGG	CCTGTGCGCT	TCTGGTTTTT	CCCTTCCTCT	180
GTTGATTTTT	TATAGTTGTC	TTTTATTTTA	AACACGCCTC	CCCCCCCCT	TTTTAAACTG	240
ATTTTACCAT	CACTCTCTCT	AGCCCTGCCT	CCCTAGAATT	AGCTGCTTCT	TACCTCCCTT	300
GGATCTGGAA	CTTAAATATT	AACGTGTATA	TAAGTTAATA	GTAAGTAGAC	CGTGAATTTA	360
GAAGAGTAAA	ACAGAATCAT	GAGTACGTAG	TCACTGTGGC	CCCTTTTTTG	CTGGATTTCA	420
AGTTCGTAAG	CATTTTTGGA	AGAGAGTCGA	AGGGGAAGGG	GTGGCTTGCC	AGTCAGTTGA	480
GTGATGCATG	GCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:134:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 362 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

GAATTCGGCC	TTCATGGCCT	AGGCTGGTCA	TTGAGAGTGT	TGGTGCAGTC	AAACTGGAAC	60
		GTGCTTGATA				120
GTAAGTTGAA	CAGGCTCAGA	AGACTTGAAC	AAGGGTCCTA	TATTCAGAAA	CTCAGGAATG	180
		ATATATTTCT				240
		TCAGTATGAA				300
		AATATGTATT				360
AG						362

- (2) INFORMATION FOR SEQ ID NO:135:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 377 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

GAATTCGGCC TTCATGGCCT ACCCCAATCA ATGGATCCTC AACTCCAAAT CCAAAGATAG

CATCTTCTGT	CACTGCTGGA	GTTGCCAGTT	CACTCTCAGA	AAAAATAGCC	GACAGCATTG	120
GAAATAACCG	GCAAAATGCA	CCATTGACTT	CCATTCAAAT	TCGTTTTATT	CAGAACATGA	180
TACAGGAAAC	GTTGGATGAC	TTTAGAGAAG	CATGCCATAG	GGACATTGTG	AATTTGCAAG	240
TGGAGATGAT	TAAACAGTTT	CATATGCAAC	TGAATGAAAT	GCATTCTTTG	CTGGAAAGAT	300
ACTCAGTGAA	TGAAGGTTTA	GTGGCTGAAA	TTGAAAGACT	ACGAGAAGAA	AACAAAAGAT	360
TATGGGCCCA	CCTCGAG					377

- (2) INFORMATION FOR SEQ ID NO:136:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 333 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

GAATTCGGCC TTCATGGCCT AAGCAA	ACTT CATGCAGCTG GTGGAACTAG ATGTGTCTCG	60
AAATGAGATT CCTGAAATTC CAGAAAC	GCAT TTCATTCTGT AAAGCACTGC AGGTAGCTGA	120
CTTCAGCGGA AACCCACTGA CTAGGTT	TGCC AGAAAGCTTT CCTGAATTAC AGAATTTAAC	180
ATGTCTTTCT GTAAATGACA TCTCAC	TACA GTCTCTACCT GAAAATATTG GCAATCTTTA	240
TAACCTGGCT TCACTGGAAC TGAGAGA	AGAA TCTTCTTACA TATCTTCCTG ACTCTCTTAC	300
CCAGCTGCGA AGACTAGAAG AACTTG	ACTC GAG	333

- (2) INFORMATION FOR SEQ ID NO:137:
 - . (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

GAATTCGGCC AATGAAGCCT ACT	TTAGTAT TTTGGCACTT	CCTAATTGAC	ACCTTGGGAG	60
ACTGCAGGAA GGGAACGAGA ATC	ATTNNTA GGNTATTTGT	GTGTGTGTGT	GGTTTTTTTT	120
TTTTTTTGGA AGACAGAGTC TCA	CACTTTT GCCCAGGCTG	GAGTGCAGTG	GCGTGATCTC	180
GGCTCACTGC AACCTCTGCC TCC	AGGGTTC AAGCGATTCT	CTTGCCTCAG	CTTCCCGAGT	240
AGCTGGGATT ACAGGCACAC GCC	ACAACGC CTGGCTAATT	TTTATATTTT	TAGTAGAGAC	300
AGTCTCGAG				309

- (2) INFORMATION FOR SEQ ID NO:138:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 599 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:

GAATTCGGCC AAAGAGGCCT AAACTCAGAA TGGTGCTACT TGAAGACTCT GGATCTGCTG 60 ACTTCAGAAG ACATTTTGTC AACCTGAGTC CCTTCACCAT TACTGTGGTC TTACTTCTCA 120

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GTGCCTGTTT	TGTCACCAGT	TCTCTTGGAG	GAACAGACAA	GGAGCTGAGG	CTAGTGGATG	180
GTGAAAACAA	GTGTAGCGGG	AGAGTGGAAG	TGAAAGTCCA	GGAGGAGTGG	GGAACGGTGT	240
GTAATAATGG	CTGGAGCATG	GAAGCGGTCT	CTGTGATTTG	TAACCAGCTG	GGATGTCCAA	300
CTGCTATCAA	AGCCCCTGGA	TGGGCTAATT	CCAGTGCAGG	TTCTGGACGC	ATTTGGATGG	360
ATCATGTTTC	TTGTCGTGGG	AATGAGTCAG	CTCTTTGGGA	TTGCAAACAT	GATGGATGGG	420
GAAAGCATTA	TTGCAATCAC	AATGAAGATG	CTGGCGTGAC	ATGTTCTGAT	GGATCAGATC	480
TGGAGCTAAG	ACTTAGAGGT	GGAGGCAGCC	GCTGTGCTGG	GACAGTTGAG	GTGGAGATTC	540
AGAGACTGTT	AGGGAAGGTG	TGTGACAGAG	GCTGGGGACT	GAAAGAAGCT	GAACTCGAG	599

- (2) INFORMATION FOR SEQ ID NO:139:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 541 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:

GAAT	TCGGCC	TTCATGGCCT	AACCTTCCTG	AATATCTGCC	GTTTGTCCTG	CAAGAAATAA	60
CTAG	TCAACC	CAAAAGGCAG	TATCTTTTAC	TTCATTCCTT	GAAGGAAATT	ATTAGCTCTG	120
CATO	AGTGGT	GGGCCTTAAA	CCATATGTTG	AAAACATCTG	GGCCTTATTA	CTAAAGCACT	180
GTGA	GTGTGC	AGAGGAAGGA	ACCAGAAATG	TTGTTGCTGA	ATGTCTAGGA	AAACTCACTC	240
TAAT	TGATCC	AGAAACTCTC	CTTCCACGGC	TTAAGGGGTA	CTTGATATCA	GGCTCATCAT	300
ATGC	CCGAAG	CTCAGTGGTT	ACGGCTGTGA	AATTTACAAT	TTCTGACCAT	CCACAACCTA	360
TTGA	TCCACT	GTTAAAGAAC	TGCATAGGTG	ATTTCCTAAA	AACTTTGGAA	GACCCAGATT	420
TGAA	TGTGAG	AAGAGTAGCC	TTGGTCACAT	TTAATTCAGC	AGCACATAAC	AAGCCATCAT	480
TAAT	AAGGGA	TCTATTGGAT	ACTGTTCTTC	CACATCTTTA	CAATGAAACA	AAAGTCTCGA	540
G							541

- (2) INFORMATION FOR SEQ ID NO:140:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 403 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:

CTTCATGGCC	TAGTGGTTCT	TCTGAAATCG	GCCTTCAGAC	ACCTGTCTTT	GGTAGTACCA	60
ATATCTAAGA	AGTGGTTTCA	GTTCAATTTT	GTTTTCCTCC	ATGCCAGAGA	GAAGCCACAG	120
TTTCCTAAGC	TGGGGAGGAG	GTATATCCTT	CAAGAGATCG	${\tt GCTTGTTAGA}$	ATAGACCACT	180
TAACACCATA	TGAAAAAGCA	ACAGACTGAA	ACATGGATGT	CCTCAAGAAG	GGCTGCTGAC	240
ACCTATGATT	TGGCAAGGAG	ATAAATAACA	GAATGTGCAA	AGGGTCATAA	GAGTGCAGAC	300
ACCCTAATGT	CTGTTGGCTG	GAAGGTCAGA	GCAGTTCACC	AGTGAAAATG	GGTACGCCAT	360
GAAGGCCGGC	CTTCATGGCC	TATAGGCCAT	GAAGGCCGAA	TTC		403

- (2) INFORMATION FOR SEQ ID NO:141:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 439 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

GAATTCGGCC	TTCATGGCCT	AGTCCTCATC	TGCTGGCATT	TTGTGGGGTG	TTAGTGCCAA	60
ACTTGAATAG	GGGCTGGGGT	GCTGTCTTCC	ACTGACACCC	AAATCCAGAA	TCCCTGGTCT	120
TGAGTCCCCA	GAACTTTGCC	TCTTGACTGT	CCCTTCTCTT	CCTACCTCCA	TCCATGGAAA	180
ATTAGTTATT	TTCTGATCCT	TTCCCCTGCC	TGGTCTAGCT	CCTCTCCAAA	CAGCCATGCC	240
CTCCAAATGC	TAGAGACCTG	GGCCCTGAAC	CCTGTAGACA	GATGCCCTCA	GAATTGGGGC	300
ATGGGAGGGG	GGCTGGGGGA	CCCCATGATT	CAGCCACGGA	CTCCAATGCC	CAGCTCCTCT	360
CCCCAAAACA	ATCCCGACAA	TCCCTTATCC	CTACCCCAAC	CCTTTGCGGC	TCTGTACACA	420
TTTTTAAACC	TGGCTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:142:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

GCGATTGAAT	TCTAGACCTG	TGTGTCTAGC	TGTGATGGAA	TCTGAAATGA	AGTTTGACAA	60
GGACCATGAT	GGACTCATTG	AAAATGGAGG	CTATGCAGAC	CAGACCTATG	ATGGATGGGT	120
GACCACAGGC	CCCAGTGCTT	ACTGTGGAGG	GCTGTGGCTG	GCAGCTGTGG	CTGTGATGGT	180
CCAGATGGCT	GCTCTGTGTG	GGGCACAGGA	CATCCAGGAT	AAGTTTTCTT	CTATCCTCAG	240
CCGGGGCCAA	GAAGCCTATG	AGAGACTGCT	GTGGAATGGC	CGCTTACTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:143:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 457 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

(BAATTCGGCC	TTCATGGCCT	AGGGAGGCTG	AGGTGGGAGG	CTCACTGGAG	GCCAGGAGTT	60
(CGGAACCAGC	CTGAGCAACA	TAGGGAGACC	TCAGCTCTAC	AACTGAAAAA	AAGATAGCCA	120
(GTGTGTTCA	TGGTGGCACC	TGTCTGTATT	CCAGCCGCTT	GGGAGGCTGA	GGCAGGAGGT	180
7	TGCTTGAGT	CCAGGAGTTT	GAGGTTGCGG	TGAGCTACAC	AATGAGCTAT	GGTGGCACTA	240
(CTACACTCCA	GCCTGGGCCA	TAGAGTAAGG	CCCTGTCTCT	AACTGGAAGT	CCAAAGAGGG	300
1	ATCTACTTCC	TAGACTATTA	ATTTAATAGA	TCAATAAATT	AATCAAGAAT	ATGATTTTTT	360
•	CTCATCTTT	CTCTGTAGTC	ATATTTTATA	CAGACTTTTT	GTTTAAGTAA	TCTCTCTTTA	420
•	rgggcagaca	ATGATTTCAG	AAACACCCTG	CCTCGAG			457

- (2) INFORMATION FOR SEQ ID NO:144:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 388 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

GAATTCGGCC TTCATGGCCT	AGTCAGCCGT	GACTGCACCA	CCATACTCCA	GCCTGGGTGA	60
CAGAGCGAGA TCTTGTCTTA	AAACAAAACA	AAACAAAACC	CAGACTTCCT	ATAATTCCTA	120
AAAATAAATG TGGGTTTGAG	AGGCCTACCT	TGAAATGTAC	AAGATCCTGG	CCAGACTTCA	180
CCTATCTAAC AATATGCTAG	TAACTATTTG	TTGACATGTC	TTAAAGAAAT	GTTCATCAGG	240
GCCTCAGAAA GCAAGGCAGA	GAACAGGTCC	CTGAAATTTA	CTAGCTTGCA	CCAAACCATC	300
AGATAAAGAT AGGTTAATAT	TTGACAGAAA	AAACTCTTCA	AAAAGAGACA	GTGAAATACT	360
CTTGAGATGA ATCCAGGCGG	CTCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:145:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

GAATTCGGCC	TTCATGGCCT	AGGCAGTGGA	GGCCTCTGTA	ATTCTAGCAT	ACAGGTGGCA	60
AGTTATTACA	TTATTTCTTT	CCTCCTGTCT	ACCTGCAGTT	GGTTTTATGT	GGGGCGTTAG	120
TACACTTCCC	AAAGGGCTTG	CCCGCAGGTG	AGAGGTGCAC	ATTGAACTCC	CTCACCAGGC	180
AGATGGGAAG	TGTGGCCATG	AGAGAGAGCT	TCAGGGGCCC	TGGGTTTATG	ACATCGCTGG	240
GCCAGGAATG	AGGTTAATAT	TTTTAATGGC	GAAGGGTGAG	CCCCGTTATT	ACCCGAGCTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:146:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 376 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

GAATTCGGCC	TTCATGGCCT	ACTGGATGGC	ATCTACTTCG	TATGACTATT	GCAGAGTGCC	60
CATGGAAGAC	GGGGATAAGC	GCTGTAAGCT	TCTGCTGGGG	ATAGGAATTC	TGGTGCTCCT	120
GATCATCGTG	ATTCTGGGGG	TGCCCTTGAT	TATCTTCACC	ATCAAGGCCA	ACAGCGAGGC	180
CTGCCGGGAC	GGCCTTCGGG	CAGTGATGGA	GTGTCGCAAT	GTCACCCATC	TCCTGCAACA	240
AGAGCTGACC	GAGGCCCAGA	AGGGCTTTCA	GGATGTGGAG	GCCCAGGCCG	CCACCTGCAA	300
CCACACTGTG	ATGGCCCTAA	TGGCTTCCCT	GGATGCAGAG	AAGGCCCAAG	GACAAAAGAA	360
AGTGGAACAA	CTCGAG					376

- (2) INFORMATION FOR SEQ ID NO:147:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

GAATTCGGCC	TTCATGGCCT	AATGGAAAGG	ACAAGGAAAA	GGGAGAAGGG	GTGAGAGTCT	60
GTCCTAGGGG	CCAACGAGAA	CAGTGAGCTG	TTTCAGGGGA	GCCATTTCCT	TGTCCATGCT	120
CACAAGCCTG	TGGATTCTTC	CCCCTCTGCA	GGAAATTACC	TGATGTTCCA	AACCCCCTCC	180
AGATCCTGTA	TATCCGCAGC	ATCTCCCCTT	TCCCTGAGCT	GGAACAGTTT	CTACAGGACA	240
CTATCAAGAG	GTACTAGGGG	CCTGGAGGTT	TGGGCTCCAA	GAGAAGCTTG	ACAGAGCCCA	300
CGCCCGACCC	CTACTTCTGT	TTCTTCCTAA	GGTATAATCT	GCAGATGTTG	GAAGCTGAGG	360
GCAGCATGAA	GCAGGCCCTG	GGTGAACTGC	AGGCACAGCA	GCCCCCCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:148:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 335 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

GCCTGGCCAT	CCGGAGAGCT	AAGAACCTCA	GGCGGCTGCT	GTACGTNTCA	TGCAACCCCC	60
GGGCAGCCAT	GGGCAACTTT	GTGGACCTCT	GCAGAGCCCC	ATCTAACCGG	GTGAAGGGCA	120
TTCCCTTCCG	GCCGGTCAAG	GCTGTGGCAG	TGGACCTGTT	CCCGCAGACC	CCTTCTTTTT	180
TCATACTTAT	ATGAAAGACT	ACATACTTAA	AATACTGGTG	ATTATATTA	GGACCTGAAA	240
TCATAAGATT	GTGGTCTTGC	TTTTTACTTA	TTTTTGTATC	TTAGCGATGT	CTAGAGTTAA	300
TAAGTGTTGC	TTTTCTAATC	ACAGCAAATC	TCGAG			335

- (2) INFORMATION FOR SEQ ID NO:149:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 482 base pairs

 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:

GGATTCGGCC TTCATGGCCT AGTGGGGCAC TAGGATCATC ATTTGGGTGA GAGCCCTCGG	
CAATGGTGGA GAGGGAGAAG TTATCATTGT GGAGCTCAGA TGGGGTCCGG AATTTGTTGG	.20
TCCTACGCAG CTTGGTATTC TCCGTCTTGA GCAGGTAGAG CTTCTTGGCA AAGAACACCG	.80
TCATCATGAA GAGCAGGAGC AGGACGAGGG CAGCCGAGCC CACAGGCCACG CACATCACCT	40
GGAAGTCGGT GATGATGGAC TCGCAGCGCA TCCCCTTGTG CCAGATGTAG TCCTGCGTGT	00
TGCACCTGCA GAAGGCCCCT ATGTTCTCCA CCAGGTAGCA CTGGCCGCCA TTGTGACAGT	60
AACTTGGGAA GAGGTCGCAC ACTGACCGGC AGGAGCCGTT ATGCCGCACA AAGCCACTGC	20
GGCACTCAGT GCCATTTTCA CTGGAGGCCA AGTCCCTGCC TGGCTCTCCT TAGGCCATGA	180
AG	82

- (2) INFORMATION FOR SEQ ID NO:150:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:

GTTCCTTACT AACTTTAATG	GCCACAACAT	TTAGGCGAAA	GGGGGCAAT	CATTGGTGGT	60
TTGGCATTCG CAGAGACTTC	TGTCAGTTTC	TGCTTGAAAT	TTTCCCATTT	TTAAGAGAAT	120
ATGGGAACAT TTCATATGAT	CTCCATCACG	AAGATAGTGA	AGATGCTGAA	GAAACATCAG	180
TTCCAGAAGC TCCGAAAATT	GCTCCAATAT	TTGGAAAGAA	GGCCAGAGTA	GTTATAACCC	240
AGAGCCCTGG GAAATACGTT	CCCCCCTCT	CCTCGAG			277

- (2) INFORMATION FOR SEQ ID NO:151:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:

GCTCGCCCAC	TTTATGAAGA	GCGATTTCAC	GGCTGCTTGA	ACCATTCGAA	TTTGGATTTG	60
TGTTCAGCAC	TTTAAAAGGT	TCAACTTTTT	GCTTCTACCC	AGATTGGTCT	CAGGTCTGTC	120
TTCTCCAGAT	GACCGGTGGT	TTCCTGAGCT	GCATCTTGGG	CTTGGTGCTG	CCCCTGGCCT	180
ATGGCTTCCA	-GCCTGACCTG	GTGCTGGTGG	CGCTGGGGCC	TGGCCATGGC	CTGCAGGGCC	240
CCCACGCTGC	ACTCCTGGCT	ACAATACTCG	AG			272

- (2) INFORMATION FOR SEQ ID NO:152:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:

GAATTCGGCC	TTCATGGCCT	AGGGGCGGTG	AAACGTCCTG	AAGAGCGTCC	AGCTCGTGGC	60
CGAGAGGACT	CGGGCGCTCC	CCACGCTGGA	GGCCGTGGAC	CGCTCCCTTT	AAAAGTTGAA	120
ACGGCCGCCG	TTCGGGACGG	CCTGGCGGGA	GGAGGGCCCG	ACGAGGGGAG	GCTTCAGGGA	180
CAACTGGGGC	TTCTCGACGT	CCACCCTTTT	CAGGGCGCGG	CCCCGGTAGC	CCTCGGGCCG	240
GCCCAGGTAC	AGGAGGTGCT	TCCCGGGACC	CCCGGAGTAC	CTGGAGGGAC	CTCCCGAGGG	300
CACTCCAC						308

- (2) INFORMATION FOR SEQ ID NO:153:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 438 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:

GAATTCGGCC TTCATGGCC					60
AGGCATGAGA GTCGACATC	CTCCTCTTAT	ATACAGATCC	AGTCCACAGG	TGAAGTGGGA	120
ACTCTCCAAC CAGGATTCAG	G CACACCATTG	ATGTTGCGAC	TCCTCTACTG	GAACACAGCT	180
TGGAGAAGGG ATTGGGGCT	C TCATGGCAGG	ATGCAATCCA	CTGTTGAGAT	TGTGACTCAT	240
GCACTTGAAC CTAAGTCTC	GGAGTTGTTG	ACTCTTACAC	CCAGCACCCA	GGTGATAGGA	300
CTCTCATGTC TGGTTCCTG	C CCACAGGTGA	AATTGTGACA	TATACATGGT	CACAGCTCAC	360
AGGTGAGGTG ATAACTCAC	A TACCTGGATC	CAGCTAAGAG	AACAGATTTT	GACTCTGATA	420
TCTTAGGCCA TGAAGGCC					438

- (2) INFORMATION FOR SEQ ID NO:154:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:

GAATTCGGCT	TCATGGCCTA	CAAGATGACT	AAAGTCTTCA	CTCACCAAGG	AAAAGTGGCT	60
CTGTATGGCA	AGCTGGTGCA	GTCAGCTCAG	AATGAGAGGG	AGAAACTTCA	AATAAAGATA	120
GATGAGATGG	ATAAAATACT	TAAGAAGATC	GATAACTGCC	TCACTGAGAT	GGAAACAGAA	180
ACTAAGAATT	TGGAGGATGA	AGAGAAAAAC	AATCCTGTGG	AAGAATGGGA	TTCTGAAATG	240
AGAGCTGCAG	AAAAAGAATT	GGAACAGCTG	AAAACTGAAG	AGGAGGATGC	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:155:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 395 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:

GAATTCGGCC	TTCATGGCCT	AAATTTAGGA	AGGTCAAACG	TGAATCTCCA	TTTGACAAAC	60
GTCCAACTGC	AGCAGAGATT	AAAGTGGAAC	CCACCACTGA	GTCATTGGAC	AAAGAGGGCA	120
AAGGTGAAAT	TAGAAGCCTA	GTGGAGCCAC	TCAGTATGAT	CCAATTTGAT	GATACTGCTG	180
AGCCACAGAA	AGGAAAAATA	AAAGGAAAGA	AACACCATAT	CTCTTCAGGA	ACTATCACAA	240
GCAAAGAAGA	AAAAACTGAA	GAGAAGGAAG	AGTTGACCAN	ACAAGTCAAG	TCTCATCAAC	300
TTGTTAAATC	ACTCTCAAGA	GTGGCTAAAG	AGACTTCAGA	ATCTACCAGA	GTTCTAGAAA	360
GTCCAGATGG	CAAAAGTGAA	CAGCGTAACC	TCGAG			395

- (2) INFORMATION FOR SEQ ID NO:156:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 422 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:

GAATTCGGCC	TTCATGGCCT	ACAGAGTACT	GAGTGGAACA	TACGATGATA	GATTTACAAA	60
				TGAAATATTG		120
TTGGAAAGAA	ATCTTAATGT	TATGGGGTAT	TGTCTAAGAA	GCTTTATTTT	AAAACCATCT	180
CATTAAATTT	TGTTGCATTT	TAGATAATCG	TCCCCAGATG	CCATGTTACC	CTAGTGCAGA	240
GTTTGGGGCT	GGATAAGTTT	TTGTTGTAGG	TGGCTATCCT	GTGTTTTGTA	GGGTATTTAG	300
CAGCATCCTG	GCCTTAAAAC	AAAAATGTTT	TCAGACATTG	CCAAATGTCC	CCCGAGCGGT	360
AAAGTCACCC	CCAAGTTGAG	AACCGCTCTA	TACAAAGAGC	TGTTATTAGA	GCCAGACTCG	420
AG						422

- (2) INFORMATION FOR SEQ ID NO:157:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 492 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

GAATTCGGCC	TTCATGGCCT	AGATTGCTTG	AGGCCAGAAG	TTCAAGACAG	GCTGCCCAAC	60
ATAGTGAGAC	CCCCTTCTCT	ACCAAAATTT	TAAAAATGAG	CATGCATCTG	TAGTCCTAGC	120
TATTGGGAAG	GCTGAGGCAG	GAGGATCATC	TGAGCCCAGG	AGTTTGAGGC	TGCAGTGAGC	180
TAAGAAGGTG	CCACTGCACT	GCTGTTGTCT	CTCAGCAGAT	CATTTTCAGC	TTTCTTTGGA	240
GAGTAGCCAT	TAGCAATGCA	AATGTGAAGT	TTGATAGCAC	AATAAATAA	ACACTGAAAA	300
CTGTAGATGT	TACTTATAAA	ACACTGGCAC	TCAGATAAAT	TGGGTTTGGT	CAAGAAGACA	360
GTGAAGCATA	TCCCTGTTGG	GCCAGAGGCT	GTTATCGTTT	TGCTCTGAAT	TCAAAACCTG	420
ATATGTCTCC	AAATTTGCTT	AGGGTTGTTA	TCCTGGAAAA	TAGAATCTGA	TAGAAGGTGG	480
GCACATCTCG	AG					492

- (2) INFORMATION FOR SEQ ID NO:158:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 505 base pairs
 (B) TYPE: nucleic acid
 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

GAATTCGGCC	TTCATGGCCT	ACTGCTTTCG	TGAAGACAAG	ATGAAGTTCA	CAATTGTCTT	60
TGCTGGACTT	CTTGGAGTCT	TTCTAGCTCC	TGCCCTAGCT	AACTATAATA	TCAACGTCAA	120
TGATGACAAC	AACAATGCTG	GAAGTGGGCA	GCAGTCAGTG	AGTGTCAACA	ATGAACACAA	180
TGTGGCCAAT	GTTGACAATA	ACAACGGATG	GGACTCCTGG	AATTCCATCT	GGGATTATGG	240
AAATGGCTTT	GCTGCAACCA	GACTCTTTCA	AAAGAAGACA	TGCATTGTGC	ACAAAATGAA	300
CAAGGAAGTC	ATGCCCTCCA	TTCAATCCCT	TGATGCACTG	GTCAAGGAAA	AGAAGCTTCA	360
GGGTAAGGGA	CCAGGAGGAC	CACCTCCCAA	GGGCCTGATG	TACTCAGTCA	ACCCAAACAA	420
AGTCGATGAC	CTGAGCAAGT	TCGGAAAAA	CATTGCAAAC	ATGTGTCGTG	GGATTCCAAC	480
ATACATGGCT	CAGGAGATGC	TCGAG				505

- (2) INFORMATION FOR SEQ ID NO:159:
 - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 373 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

GAATTCGGCC	AAAGAGGCCT	AGCCGGAGCA	GCTGTCTGGG	AGTCAAGGCT	GCAGTAGCGT	60
TTCTTCATGG	GGTGCTCCAG	GGGGTGCCAC	AGACCGACAG	GCAGCCCAAG	GGCCTGGACA	120
CCCCTCCCCA	GGCAGGTGCT	GCCCCAGGAG	GACTGTCCTC	GGGAATGAAC	CTCCCGCGGG	180
CTTTGGACTG	AGGTCCCTGT	GGCCTCGGTC	TCCTCCCCAT	GAAGTGGGAG	CGAGGCTCCC	240
CAATGGTGCT	TTTGGCTTTA	GTGTACGATG	TTTGCTGTGC	TTCCCGCCGT	GGAGGGCAGA	300
GCCACCCCAC	ATCAGGATCG	GACGTGCTAC	CCCTCCCGGT	CCCGGCCCTG	GCCCAGCCAG	360
CCCAGCCCTC	GAG					373

- (2) INFORMATION FOR SEQ ID NO:160:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 362 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:

GAATTCGGCA	AAGAGGCCTA	ATGAATTCTC	TGATCACAAA	ACAGACCCAG	GAAAGCATTC	60
AGCATTTTGA	GCGACAGGCA	GGGCTGAGAG	ATGCTGGCTA	CACACCCCAC	AAGGGCCTCA	120
CCACCGAGGA	GACCAAGTAC	CTTCGAGTGG	CCGAAGCACT	CCACAAACTA	AAGTTACAGA	180
GTGGAGAGGT	AACAAAAGAA	GAGAGGCAGC	CTGCATCAGC	CCAGTCCACC	CCAAGCACCA	240
CTCCGCACTC	TTCACCTAAG	CAGAGGCCCA	GGGGCTGGTT	CACTTCTGGT	TCTTCCACAG	300
CCTTACCTGG	CCCAAATCCT	AGCACCATGG	ACTCTGGAAG	TGGGGATAAG	GACGGGCTCG	360
AG						362

- (2) INFORMATION FOR SEQ ID NO:161:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 419 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:

GAATTCGGCC	AAAGAGGCCT	AGTTTTACAA	AACGCGATTT	GTAATATAAA	CTAGTTAGAT	60
AACTCAGAGG	GTTTTATTGG	CCATATTTTT	GTTTATGCTT	TGTCACAGGC	TTTAGTCATT	120
GCTTCCATGT	GTTTTCATCC	TTCAGGATAT	CTTCAAGAAG	CCTACTTATG	GACCAAACAA	180
GTTCTGACCA	TCATGGAGAA	ATCTCTGGTC	TTGCTCAGGG	AGGTGACGGA	TGGCTCCCTC	240
TATGAAGGAG	TTGCGTATGG	CAGCTACACC	ACTAGATCAC	TCTTCCAATA	CATGTTTCTC	300
GTCCAGAGGC	ACTTCAACAT	CAACCACTTT	GGCCATCCGT	GGCTTAAACA	ACACTTTGCA	360
TTTATGTATA	GAACCATCCT	GCCAGGTATA	GTGAGGAGTC	AGAAGTGTGA	AAACTCGAG	419

- (2) INFORMATION FOR SEQ ID NO:162:
 - (i) SEQUENCE CHARACTERISTICS:

WU 98/45437		PC1/US98/00956	
	(A) LENGTH: 261 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:		
	GAATTCGGCC AAAGAGGCCT ACAGGTAGTA TCTTTATAGC GGTATAAA CAAACAGGTA GCTCTAAATT GTGAGTTTTT CTTAACTCCT TTGATCTT TTTTTCACAT TTCACACTTC CCTAATGCCA AAAATCCACC TCCAGCAG TTTCTTATCC TGCCCCTTGG AAGAATGTCA TCATTATTGC TGCCACAG TTTCAGAAGT TACAGCTCGA G	CT GTGATAGCGA	60 120 180 240 261
-	(2) INFORMATION FOR SEQ ID NO:163:		
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:		
	GAATTCGGCC AAAGAGGCCT AGTGGTCTGG GGCAAAATTT AGTAAGAC GGTAATCAAA GCAGAAACTG ACAAATGAGA TGGTATCAAG CTAAAAAG		60 108
	(2) INFORMATION FOR SEQ ID NO:164:	,	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:		
	GAATTCGGCC AAAGAGGCCT AGTTTAACCT CATCAGACAT TATTGCAC CAAGCTCAGT AACCTTCCAA CGCTCATTC CATGAGGCTA GAGTTCCT TAGCCATGAG CATTACCTCA ATCTGAACCT TTTTTTTATG AATGCTGA ATCTCCTTGT CCTTCCATAT CTTCCCAGAA CTCAAGCTCC TGCTCCAC GAAGATCGCC AGCATGTTCG ATCTGACTTC CGAGTACCGC CAGCCCCT	GA GAATCCTCTG ATA CTGCTCCAAC GCT TCCAGGACCA	60 120 180 240 292
	(2) INFORMATION FOR SEQ ID NO:165:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:

GAATTCGGCC	AAAGAGGCCT	AGCAAAAACT	GTTCAAAAGA	GTTGTTGATT	ACTTTCATTT	60
CCACTTTCTC	ACCCCCATTC	TCCCCTCAAT	TAACTCTCCT	TCATCCCCAT	GATGCCATTA	120
TGTGGATTCC	TCGAG					135

- (2) INFORMATION FOR SEQ ID NO:166:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 449 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:

GAATTCGGCC AAAGAGGCCT	AGAAAAAGTA	GCACAGTGGA	GTCTGAAATA	GCAAGCGAAG	60
AGAAAAGCAG AGCTGCTGAG	AGGAAAAGGA	TTATTATTAA	GATGGAGCCA	GAAGATATTC	120
CTACAGATGA ACTGAAAGAC	TTTAACATTA	TTAAAGTTAC	TGATAAAGAC	TGTAATGAAT	180
CCACTGACAA TGATGAATTA	GAAGATGAAC	CTGAAGAGCC	ATTTTATAGA	TACTATGTTG	240
AAGAAGATGT CAGCATAAAA	AAAAGTGGTA	GGAAAACTCT	AAAACCTCGA	ATGTCAGTAA	300
GTGCTGATGA AAGAGGTGGT	TTAGAGAATA	TGAGGCCCCC	TAACAACAGC	AGTCCAGTAC	360
AAGAGGATGC TGAAAATGCA	TCTTGTGAGC	TGTGTGGACT	TACAATAACC	GAGGAGGACC	420
TGTCATCTCA TTACTTAGCC	AAACTCGAG	•			449

- (2) INFORMATION FOR SEQ ID NO:167:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 565 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:

GAATTCGGCC	AAAGAGGCCT	AAAAGGAAAC	TTGGACAAGT	AGAAAGTGGA	TGACCCAGGC	60
TCCGTTACAT	ATACTTGGAT	TCCAGCTGGG	ACCTAGATTT	GCTGAGGACG	GAAGCCAAGG	120
AGACAGGAAC	ATGTGGCTGC	TCCCAGCTCT	ACTCCTTCTC	TGCCTCTCAG	GCTGTTTGTC	180
TCTGAACGGC	CCCGGCTCTG	TGACTGGCAC	TGCGGGGGAC	TCTCTGACAG	TGTGGTGTCA	240
GTATGAGAGC	ATGTACAAGG	GATATAACAA	GTACTGGTGC	CGAGGACAGT	ACGACACGTC	300
ATGTGAGAGC	ATTGTGGAGA	CCAAGGGAGA	AGAGAAGGTG	GAGAGGAATG	GCCGCGTGTC	360
CATCAGAGAC	CACCCGGAGG	CTCTCGCCTT	CACTGTGACC	ATGCAGAACC	TCAATGAAGA	420
TGATGCTGGA	TCTTACTGGT	GCAAAATTCA	GACAGTGTGG	GTCCTGGATT	CATGGTCACG	480
CGATCCCTCG	GACCTGGTTA	GGGTGTATGT	TTCCCCAGCA	ATTACAACCC	CAAGGAGGAC	540
CACACATCCA	GCCACCCCGC	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO:168:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 158 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

TCATGCTGTT	AAAGAGGCCT AGTTTCCTTT ATATGTTTGC ACTTAATTTG ATTCCATCCT TTCATTATTC TTAGTTCATC TACACCACAT AAATTATCAC CTTTGTTTTC TTTCCATGTG CCACAAACAA ATCTCGAG	60 120 158
(2) INFORMA	TION FOR SEQ ID NO:169:	
(i) :	SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:169:	
TTCCCTCTCA CTAGTTTCCC GCTACTTCCC CCATTGTCTT CCCCAATGGC	AAAGAGGCCT AGTCTCACCA TCTATTCTAA ACCTTATATT ATCAATCCTA CCAAAAGAAT CCCTTTATAC AAGTAATTAT CCTGTCTATG TCTTTCAACT CACTGCAACT CTTCCCTTAA TATATGTACC TGCTCTGTTA TCCCTCTCA TATTTTCTGT TCCCCTTAC AGGAAAACTT TTCTCCAGCA TTTCCCAATG ACTTCCTCAC ATTCTATTT CTTCTAAAC CATTTTATT AGGCTTCTTT TATTGTCAAG CTTCACTTAA TGCCGTGCAA ATCACCCTAT TCTCCAGGTC CCAGTCTCTC GAG	60 120 180 240 300 360 383
(2) INFORMA	ATION FOR SEQ ID NO:170:	
(i) :	SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:170:	
TCTCTCCTCC TCCTTTTCCC ACTGACCTGT	AAAGAGGCCT AAATATTGTC TGAAAAAAAA ATATGAGACC CATTACTCAG TGCCATTTAT ACTGCAGGTA TTCCCCAAGT TTCTCTTCTC	60 120 180 240 282
(2) INFORMA	ATION FOR SEQ ID NO:171:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:171:	
TGTTCTTATT CTTCCCACAG	AAAGAGGCCT AGTGGAAGAG AAGAATGTTT CTGTCTCTTC CTACGTTGAC CCACTGGTTT CTTTAGCAGG ACTGTTCTAC TCAGCCTCTG TGGAAGAAAA GGCTGCACTA GCACAGCCAG CCTTTGCTTT TACAGCCTGC TCTTGCCTAT GTGTATGTAT TCTTCCACCT TTGGACTTGG ATGGGTATTA AACTCTTCAG	60 120 180 240

GCATAATTGA TGCAACTAGA GTCAATATGC TGTATATATT AATGATAGCT CTTGGGCATC GATCTCTGAA AGCTCAAATG GATGGAATTT AGTTTGCGGG AACTCTCGAG	300 350
(2) INFORMATION FOR SEQ ID NO:172:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:	
GAATTCGGCC AAAGAGGCCT AGGGGTGTAC ATTTTATTGG AAACCTTAAA TACTGTTCAG AAAGAATATA TCTTCAATCA AGGCTCTTGT GCAGCCTACA CAGAAAAATG AAGCTTTTTG GGTTAGGTGC AACGCTCGAG	60 120 140
(2) INFORMATION FOR SEQ ID NO:173:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:	
GTGGTCTCTC CTCCCCTGCC ACTCCCCTCT TCTTTTTTT CCAACATGGC CTTGCTCCGC GTACATCGCC ACCCAGGGAC CGCTGCCCGC CACCGTGGCT GACTTTTGGC AGATGGTGTG GGAGAGCGGC TGCGTGGTGA TCGTCATGCT GACACCCCTC GCGGAGAACG GCGTCCGGCA GTGCTACCAC TACTGGCCGG ATGAAGGCTC CAATCTCTAC CACATCTATG AGGTGAACCT GGTCTCCGAG CACATCTGGT GTGAGGACTT CCTGGTGAGG AGCTTCTATC TGAAGAACCT CGAG	60 120 180 240 300 304
(2) INFORMATION FOR SEQ ID NO:174:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:	
GCGATTGAAT TCTAGACCTG CCTCTCTTAT ACCTCGGTGT GGCCGAAAGG AAATAAGCAG AGGCGCTATT GGCAGGACCT AGAAACTTTC CTTGTAACAT AGCTAGTATG TTCCCTCTGC CCCTTCTTCA TCTTTTCCTC ACACTTGCTG GAGCTGGAGC AGCTATCCTG ACCGCAGGTG CACTCGAG	60 120 180 188
(2) INCORMATION FOR CEO ID NO.175.	

- (2) INFORMATION FOR SEQ ID NO:175:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 274 base pairs

PCT/US98/06956

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:

GAATTCGGCC	TTCATGGCCT	ACTATCTGCC	TTGCGCTCCC	ACTGCCCTGA	CCTGTGCCCT	60
CTCACAGGCC	CCCGTGATGG	CTCGCTGGCC	TCCCTTCGGC	CTCTGCCTCC	TCCTGCTGCT	120
GCTGTCCCCA	CCGCCACTGC	CCTTGACAGG	GGCCCATCGC	TTCTCCGCAC	CTAATACCAC	180
TCTCAACCAC	TTGGCACTGG	CACCTGGCCG	AGGCACACTC	TATGTCGGCG	CAGTGAACCG	240
CCTCTTCCAG	CTCAGCCCCG	AGCTGCAGCT	CGAG			274

- (2) INFORMATION FOR SEQ ID NO:176:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 327 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:

GGTCAGCCGA	GCATGATAGG	AGACATCATC	AACCTCGGCC	TGAAAGGGAG	GGAGGGGAGA	60
GCAAAGGTCG	TCAACGTGGA	GATCGTGGAG	GAGCCCGTGA	GTTATGTCAG	CGGGGAGAAG	120
CCGGAGGAGT	TTTCCGTCCC	ATTCAAAGTG	GAGGAGGTCG	AAGATGTGTC	GCCAGGCCCC	180
TGGGGGTTGG	TTAAGGAGGA	GGAAGGTTAT	GGAGAAAGCG	ATGTCACATT	CTCAGTTAAT	240
CAGCATCGAA	GGACCAAGCA	GCCTCAGGAG	AACACGACTC	ACGTGGAAGA	AGTGACAGAG	300
GCAGGTGATT	CAGTGGGCGA	GCTCGAG				327

- (2) INFORMATION FOR SEQ ID NO:177:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 408 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

GAATTCGGCC AAA	AGAGGCCT AAGCAATGTC	TCCACCACTG	CTGCTGCTAC	CCTTGCTGCT	60
	SCTGAATG TGGAGCCTGC				120
TCAAGTCCAC CCI	rggacgca ggaccctgaa	CTACTGAGGG	GATGGGGAAA	ACCAGCAGAG	180
CTCCCCAAGT TGG	EGGGCCCC ATCCCCTGGG	GACAAGCCTG	CCTCGGTACC	TCTCTCCAAA	240
TTCCTGGATG CCC	CAGTATTT TGGGGAAATT	GGGCTGGGAA	CGCCTCCACA	AAACTTCACT	300
GTTGCCTTTG ACA	ACTGGCTC CTCCAATCTC	TGGGTCCCGT	CCAGGAGATG	CCACTTCTTC	360
AGTGTGCCCT GCT	TGGTTCCA CCACCGCTTC	AATCCCAATG	TCCTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:178:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:

GAATTCGGCC AAAGAGGCCT	AGGAGGAATT	TCCATCTTGC	TCTCAAAGTG	AGTCTGAATG	60
TGCTCGGTGG TGTCACCCCC	GCCGAGCTGC	CAGTGCAGAA	GGCCACTATT	GAACTCCTGC	120
ACACGCCCCA ACTTGTCAGA	TCGGTCAACA	ACAAACAGGT	TGTTCTTTTT	GACTATCTTT	180
ATTGGCAGCT TGTCGAACTT	ACTGGCTTGC	TTGGGCTTCT	CCTTTGGGTC	TGCAGCGGCG	240
TCCGGGGCAG TCAGAGCGAT	GCTGCTCTTT	TCATCGCTTT	CTGTCTTCTC	GCTGTCTACC	300
TCGAG					305

- (2) INFORMATION FOR SEQ ID NO:179:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 247 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

GAATTCGGCC	AAAGAGGCCT	AGTGCAGCAA	TTTAGAGAGT	GTCTCAGGAG	TGTGGCTCAC	60
TGGCAGCTGC	AGCTATGTTA	GTGCTTCTTT	CTGCCTCAAG	TTCAGAAACA	AGCTGGACTA	120
TCTCAGGGTG	ATTGAATTTT	CCTGCTGTGG	AATCATAGAA	GTCTTGCAGT	CTCCCAGGTT	180
TGTGTTCAAG	GTCTTCATAT	TCAGATGCTT	GAAGAATCAT	TTCACATTGG	TCTAGCATTC	240
AATCGAG						247

- (2) INFORMATION FOR SEQ ID NO:180:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 315 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

GAATTCGGCC	AAAGAGGCCT	AGTCAAGTTC	ATTTCCCAGA	GTCTTAAGAC	TAAGTTCTGC	60
CTCCTCATTG	CAGGTGTGCC	GAGAGTTTTT	TTTGAACAAC	AAAAATTACT	AAGGAACCTC	120
ACTACCTTTG	GCGGTAGAAT	TAGAAAACAG	ATTCAGCAGT	CACCTACTCC	CCTTCAGTAA	180
TTCGAGACAA	TTATTTTCT	CCTGACACAA	CATCAGGTCC	CATGAAAAAT	GACACCGTGC	240
CTGGTGTTTT	TGGGTTCTTT	AATGCTTCTT	TTAGAGCCAC	ATTTTTCTTT	TCAAACCGAG	300
TTCCCATCGC	TCGAG					315

- (2) INFORMATION FOR SEQ ID NO:181:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

GAATTCGGCC	AAAGAGGCCT	AATTTTTCTT	CACGTTCTTT	ATCACCACCA	TGGTTATGTT	60
GGCTGCCCTG	GCTCACCATT	TGTTTTACTG	GGATGTTTGG	TTTATATATA	ATGTGTGTTT	120
		GGTCTCTTTC				180
		CCTCTGTTAC				240
CCTTGAAGAG	AGCCGAGACA	AAAACGTTCT	CCTTTGTCTA	GAGGAGAGGG	ATTGGGACCC	300
GGGATTGGCC	ATCATCGACA	ACCTCGAG				328

- (2) INFORMATION FOR SEQ ID NO:182:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 123 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

GAATTCGGCC AAAGAGGCCT	AGTTGTGGAA	AAGAAAGACT	GTGAGGGTAG	GCACAAGAGC	60
ACTCAAATGT CCCAGGTAGA	GAAAACAACA	TGTATGATGG	CCCAGAAGGA	GGCAAGTCTC	120
GAG					123

- (2) INFORMATION FOR SEQ ID NO:183:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 311 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

GAATTCGGCC A	AAAGAGGCCT	ACTTGGACAA	GTAGAAAGTG	GATGACCCAG	GCTCCGTTAC	60
ATATACTTGG A	ATTCCAGCTG	GGACCTAGAT	TTGCTGAGGA	CGGAAGCCAA	GGACACAGGA	120
ACATGTGGCT C	GCTCCCAGCT	CTACTCCTTC	TCTGCCTCTC	AGGCTGTTTG	TCTCTGAAGG	180
GCCCCGGCTC T	TGTGACTGGC	ACTGCGGGGG	ACTCTCTGAC	AGTGTGGTGT	CAGTATGAGA	240
GCATGTACAA C	GGATATAAC	AAGTACTGGT	GCCGAGGACA	GTACGACACG	TCATGTGAGA	300
GCTCACTCGA C	3					311

- (2) INFORMATION FOR SEQ ID NO:184:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 130 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

GAATTCGGCC AAAGAGGCCT AGTTCAATCT GTAACAAGCC TTCTTCAATT TCCTCTCCAC 60 120 ATACCCTGCA TAGACTTTAA GATTCCTCTG CTCGATGCTA ATAAGAAGAC ACACACCCCT

CGTTCTCGAG 130

- (2) INFORMATION FOR SEQ ID NO:185:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

GAATTCGGCC	AAAGAGGCCT	AGGAGGGGA	AGAGAGTCCG	TTTTGCAGAA	GATGAAGAAA	60
AGAGTGAAAA	TTCCTCGGAG	GACGGTGACA	TAACGGATAA	GAGTCTTTGT	GGAAGTGGTG	120
AAAAGTACAT	CCCACCTCAT	GTGAGGCAAG	CTGAGGAGAC	AGTGGACTTC	AAGAAAAAGG	180
AAGAACTAGA	AAGC TTGAAG	AAACATGTAA	AAGGTCTACT	TAACAGGTTG	AGTGAACCCA	240
ACATGGCTTC	CATCAGTGGG	CAGCTGGAGG	AACTGTACAT	GGCCCACAGC	AGAAAGGACA	300
TGAATGACAC	CCTGACCTCC	GCTCTCATGG	GTGCCTGCGT	CACTGCCTCG	GCCATGCCCA	360
GCAGACTGAT	GATGGAGCAT	GTTCTCTTAG	TCAGCATCCT	TCACCACTTA	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:186:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:

GAATTCGGCC	AAAGAGGCCT	ACTACATTTT	TACCTAAATT	TATAGAAAAT	CAATTCGGAT	60
TGACATCCAG	CTTCGCAGCT	ACTCTTGGAG	GGGCTGTTTT	AATTCCTGGA	GCTGCTCTCG	120
GTCAAATTTT	AGGTGGCTTC	CTTGTTTCAA	AATTCAGAAT	GACATGTAAA	AACACAATGA	180
AGTTTGCACT	GTTCACATCT	GGAGTTGCAC	TTACGCTGAG	TTTTGTATTT	ATGTATGCCA	240
AATGTGAAAA	TGAGCCATTT	GCTGGTGTAT	CTGAATCATA	TAATGGGACT	GGAGAATTGG	300
GAAACTTGAT	AGCCCCTTGT	AATGCCAATT	GTAACGTACT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:187:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 488 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:

GAATTCGGCA	AGAGCCTAAA	ATCTACAAGC	ACCAGGAAGT	CAAGATGCAA	GCACCAGCCT	60
TCAGGGACAA	GAAACAGGGG	GTCTCAGCCA	AGAATCAAGG	TGCCCATGAC	CCAGACTATG	120
			ACCATGCAAA			180
			CCTCAGACTC			240
TGTACAGAGC	CATCCTGAGC	CTGTACATCC	TCCTGGCCCT	GGCCTTTGTC	CTCTGCATCA	300
TCCTGTCAGC	CTTCATCATG	GTGAAGAATG	CTGAGATGTC	CAAGGAGCTG	CTGGGCTTTA	360

AAAGGGAGCT TTGGAATGTC TCAAACTCCG TACAAGCATG CGAAGAGAGA CAGAAGAGAG GCTGGGATTC CGTTCAGCAG AGCATCACCA TGGTCAGGAG CAAGATTGAT AGATTAGAGC GACTCGAG	420 480 488
(2) INFORMATION FOR SEQ ID NO:188:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:	
GAATTCGGCC AAAGAGGCCT AGGTCAGATG CATTAAAACA TATCAAAAATG TTACAAAAAT GTATGGCTCC CTTGCTGAGG CCCTGTCAGA TTATGTTAGA TGAGTAAACG CATCAGTGTG TAAGTTCAGA ACCAAACGTT GAATCAAGTC ATGTACTCTC GAG	60 120 163
(2) INFORMATION FOR SEQ ID NO:189:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:	
GAATTCGGCC AAAGAGGCCT ACCTGCTCAT ACCTGTGGCC AAAAGCATGA TGCCCCAGGC TCTGCCTCCA ATTCTACCAT CTTCTCCAT CTTTCTCTTT TATCAGGTCT CTGCCCTCCT GTACTTTGTA CTTAGATTCT CCTCTGCCAA GCCCATTCAG ACTGTGACTG GTAGGAGTGC TGTGCTCAGC TTTCCACTTG AGTGTTTATC CAAGAAGTTG GATAACCCTC TCAAGTTATG GCCTCCATTC CAGTGCGCCT CAGTCTATGG GGATGCATTC CACTCACCCT TGGGCCTAGG GCAGGTCGAG	60 120 180 240 300 310
(2) INFORMATION FOR SEQ ID NO:190:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 516 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:	
GAATTCGGCC TTCATGGCCT AGGGCCTCAG TCTTTTTACT TTTGCGGCTG TGTTTCTCTG AAGGCTTGGC ATTAGTAGAT TGAAAAGAAT AACCATCTAG GGAAATGTGA ATTCAGTTTC TTTCTGACAT TCTGCTCTCT ACAAGGGGAT ATTATGTACA CATAAACCTA CTTCCAAAAT AATGAAGTGA GGCCTAATTC CTTACTCTTC AGAGAGCCCA CTGTGGAAGT GTCACTGACC TTGTGTATAG GCTGCCCTTC ATGCCTCTG GAGTCATTAT AAAGGGCAGC ATTTGGCGTG GTGCGTCCTA AGCAGTGTT TCTCGGGCTCT GTTCCTTAAA CATGTGTTAG TGTTAATAGA TGTTCTTGGA AAAAAAAAA AAAAAACAC ATTCTGAGGT CAAACATGCT CAGAAAGCTT GGAATCTGCA CTACGCTTCT CGTACACATT TCATATTAAA GATTTTGGAA AGTCCTGCAA	60 120 180 240 300 360 420 480

TACAGAGCCC TGTCTAATAT TGCCACAGCC CTCGAG 516

- (2) INFORMATION FOR SEQ ID NO:191:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 319 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:

GAATTCGGCC TTCATGGCCT	ACTTGCTAGA	TAGACAGATT	AAGAATGTTG	AAGACATGGT	60
CCAGTTTATT AATAACATTT	TGGATGGCAC	AGTAGAAGCC	CAAGGAGGTG	ATAGCATTTT	120
GCAGAGATTG AAAAGAATAG	TATTTGATGC	CAAATCTACT	ATTGTGTCTA	TATTCAAGAG	180
CTCACCACTG ATGGGCTGCT	TTCTCTTTGG	CCTGCCACTG	GGTGTCATCA	GTATCATGTG	240
CTATGGAATC TACACAGCCG	ACACAGATGG	AGGTTATATA	GAAGAACGAT	ATGAAGTGTC	300
TAAAAGTGAA AATCTCGAG					319

- (2) INFORMATION FOR SEQ ID NO:192:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 382 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:

GAATTCGGCC	TTCATGGCCT	AAGCAGAAGG	ACATATTAGA	GAAGGATTGT	ATAGTTTTCT	60
GGTAAAAGAT	GACAGTGAAT	TGTATGGGCG	ATGGATTAGC	CGTGGAAGGT	GTTGAGTATA	120
AGTGGTCTCC	AGCCAAACTC	TATGGTTACT	GGAATAAGAG	AGTAGGAACC	TTCTCAGGCT	180
TTATCTTTAT	CTATTCTTGT	CAACAGTATG	TACATGTGTC	CCCCAGCCCC	AAATAACTGT	240
ACAGTTTAAT	GATGTTCACT	CTATACAGTT	CCCAGAATCC	ATTGGAAATT	GCTGTAACAG	300
CATATCCTCA	ATGCCCATCA	ATTCTCCACG	TCCAACTTCT	CCATGGCCTC	CTCTGCCTCT	360
GCTGATCTGT	GAACTTCTCG	AG				382

- (2) INFORMATION FOR SEQ ID NO:193:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 474 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

GAATTCGGCC	TTCATGGCCT	AATATTTTTA	AAGCGAAAGC	TAACTTCTAA	TTTTGAAAAT	60
TTTTATTGGG	AGCAGGATAT	TATAATAATA	ATCTTTAGTT	GTTAAACCAT	TAAACATCAA	120
GGTTTTTTAC	ATTGTTTCTA	TGCCTCCTCC	CTCAAAAAAA	AAAAACCTCC	TACAATAAAA	180
CTGAAAAATT	GCACAAAGAC	ATATTAGTGG	AAGACCACTG	CTTCGTTTAC	ACAAATGAAG	240
AGTATAAAGC	AGAGAAGTGC	TCCTTGGGGC	AAAAGGCAAT	TGGCAAAAAG	CTAAGGAACA	300
TTTTCATAAT	GAATTAGAAA	TACAGATCAT	CAGGAATATC	CAGGAAGCGA	TAGTGAATAC	360

CAGGCAGGCT TAAGAGACAC GAAACATTTA GCATGTTGGT AAACCACTTT AGCACATCAG	420
CAAAAGCATA TAAACAGCTT TAGGATTGGA AATTATTGCC AGGGGGGACT CGAG	474
(2) INFORMATION FOR SEQ ID NO:194:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 499 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:	
GAATTCGGCC TTCATGCCT ACGTNNCTAT GTCTTCAAGC ACAGAGGTGT CCAGGTGTAT TGCACATCTT CATCGCACTG AGCTGCATGG ACAGCTGATT TCTGTGGAAA AAGTATAAGG TGATCCCTCT CAGAAAGAAA TGAAGAAAGA AAATGATGAA AAAGAGTAGTT CAACAAGACT TGGAGATAAA AAAAATACGA GTGATAAAAAG TAGCAAGACC CAAGCCTCTG TCAAAAAAGA AGGTAAAAGA TCGTCTGAGA AATCTGAAAA AAAAGAAAGC AAGGATACTT AGAAAATAGA AGGTAAAGAT GAGAAGAATG ATAATGGAGC AAGTGCCAA ACATCAGAAT CGATTAAAAA AAGTGAAGAA AAGAAGCGAA TAAGTTCCAA GAGTCCAGGA CATATGGTAA TACTAGACCA AACTAAAGGA GATCATTGTA GACCATCAAG AAGAGGAAGA TATGAGAAAA TTCATGGAAG AAGTAAAGCAA ATGCTCGAG	60 120 180 240 300 360 420 480 499
(2) INFORMATION FOR SEQ ID NO:195:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:195:	
GAATTCGGCC TTCATGGCCT AAGCAAAAGA GCATTAAGAA GTGTCTGTTT TTGTTATTGC CATTTCATAA ATATTTAGT AGGTGTTCAA TTTCATTGA TATTCTTTTT TTTTAATTGT CTTTGTACCT ATGATTGAAA ACAGTAGTTG GTCTATGACT TTTGAGGAGA GGGAGAACCG AAGATTACAG GAGGCCAGCA TGAGGTTGGA ACAAGAGAAT GATGACCTTG CCCATGAACT GTTGAATAAA GAGCTCCTTT TGACCAAAAC CCTCGAG	60 120 180 240 300 337
(2) INFORMATION FOR SEQ ID NO:196:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:196:	

60 120 180

GAATTCGGCT TCATGGCCTA AAGGAAACTG ACAAATTATC CCCAGCTGCC AGAAGAAGAA ATCCTCACTG GACGGCTTCC TGTTTCCTGT GGTTCATTAT CTGATTGGCT GCAGGGATGA AAGTTTTTAA GTTCATAGGA CTGATGATCC TCCTCACCTC TGCGTTTTCA GCCGGTTCAG GACAAAGTCC AATGACTGTG CTGTGCTCCA TAGACTGGTT CATGGTCACA GTGCACCCCT 240 TCATGCTAAA CAACGATGTG TGTGTACACT TTCATGAACT ACACTTGGGC CTGGGTTGCC 300 CCCCAAACCA TGTTCAGCCA CACGCCTACC AGTTCACCTA CCGTGTTACT GAATGTGGCA 360 TCAGGGCCAA AGCTGTCATC CTCGAG 386 (2) INFORMATION FOR SEQ ID NO:197: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 429 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:197: GAATTCGGCC TTCATGGCCT AGTTTTTGTC TTTTTTCTT TTTTGGTATT ATTTTGTTTG 60 120 CCACTTATTC CTAAAATTCA TATTGCTATT AACCGTACAC ATCTTTCCAT GTTCTTATAA TAATCTACAA ACATCTCTCC CTTTCTGTAG CTCTCTCTGT CACACACAC CACATGCACA 180 CACGCACACA CACACACA CACACGCTGT GCACTCTCCT GAAGCATGTG TGTACATACA 240 TACATATGTG AGGGGTTTTA TGACTGTTTT ACCAAATTGT GTTCTTAATA TATACAATGT 300 TGGCTTCTTT TTAGCCATTC AGAAGTTATT TCAGTCATGG AATGATCTCT AGCCATATAA 360 CTGAAAACAG GTAAGTTTCT TTCTTGGGGA AGAAGGGCGA ATGGTGATAG AGAAAATGGA 420 429 GAGCTCGAG (2) INFORMATION FOR SEQ ID NO:198: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:198: 60 GAATTCGGCC TTCATGGCCT ACCAAGCTAT GCAGGAACAG TTGTCTAAGA ACAAAGAACT GACACAGAAA CTCCAGGTAG CCTCTGAGAG TGAGGAAGAG GAGGGAGGCA CAGAAGATGT 120 GGAAGAACTC CTTGTCCCTG ATGTAGTGAA TGAAGTGCAG ATGAATGCAG ATGGGCCGAA 180 240 TCCCTGGATG CTCAGGAGCT GCACCAGTGA CACCAAAGAG GCTGCAACCC AGGAGGACCC TGAGCAACTG CCAGAGCTTG AGGCCCATGG AGTTTCTGAA AGTGAGGGAG AAGAAAGACC 300 349 AGTGGCAGAA GAAGAAATTT TGTTGAGAGA ATTTGAAGAA AGGCTCGAG

(2)	INFORMATION	FOR	SEQ	ID	NO:199:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 312 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

GAATTCGGCC TTCATGGCCT AGGGAAAGCT CCAACTTGCT TTACCTTTCT AAGATATCCC 120 ATTTTCTCTA TACCATTTGT TGACTAATAT ATCTCTTGCC CACTGGTTTG TAACAGTGCC

				~~		
TTAATTAGTT T	TTGTGTTTG	AAGTTCCAGA	ATCTCTTCCT	GGCCTATGTA	TTGTGTTCCG	180
TTGATGGATC T	TTCCATCCC	ATGGTACCCT	TTACTATTAT	TGTCTTCATT	TTTATTACTA	240
TTGTTATGCC C	TTTTCTCTC	TCCGTGCACA	TCTTCATGTT	TGAACTCTAA	AAACACACCG	300
CCAACGCTCG A	\G					312

- (2) INFORMATION FOR SEQ ID NO:200:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 385 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:

GAATTCGGCC	TTCATGGCCT	AATATATCCA	AGTAATAGCA	TGTACAGTTT	GGTAAGCAAT	60
ATAATAGAGA	GATATTCACA	GTGAAATAGG	AAAGAGCAGT	${\tt ATAGGTGCAA}$	AGACAAAAAG	120
CATGACACAG	CTAGATACAG	GGCAGCTGTT	ATTGGTTTTG	TATGGAGAAA	ACCTGGAGAA	180
ATGGTGAGAG	AAGGGGCAGA	AGATGAGAGG	GGCCAGATCA	TGGAGTACCT	GTTTGTGGCG	240
CTCAGGAGTT	TAGATGTTAT	CATGCAGATA	ACTAGGAGCC	ATTTGAGGAA	CTTAAATACA	300
GGAGTGATAC	CAGATTTATA	TGTTTTTAAA	ATGATTACTT	GGTGGTAATT	AAAGAAAAGA	360
TTGGATGATT	TAGGCAGATC	TCGAG				385

- (2) INFORMATION FOR SEQ ID NO:201:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 204 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:

AATTCGGCCT	TCATGGCCTA	CGTTTTTTTA	AATTTTTTTA	ACTACATATT	TGATACGATC	60
TTTTCCTTCT	TGCCTTCTTT	TTGATTACTT	ACTTTCTACC	ATTCTATGTT	TTTCGTCACT	120
AGTTTGAAAA	TTGTATACTT	TGTTTTTATT	CTTTCAGTGG	TTACCCTAGA	AATTACAACA	180
AACAAAAATT	GCAACAACCT	CGAG				204

- (2) INFORMATION FOR SEQ ID NO:202:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 450 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:

GAATTCGGCC TTCATGGCCT	AAAATCATCA	TGCATATTTA	TTTCTCCAAA	GCACCTTTGA	60
CAAGCATGAT TTGGATAGAG	ACTGTGCTTT	GTCACCTGAT	GAGCTTAAAG	AATTTATTTAA	120
AGTTTTCCCT TACATACCTT	GGGGGCCAGA	TGTGAATAAC	ACAGTTTGTA	CCAATGAAAG	180
AGGCTGGATA ACCTACCAGG	GATTCCTTTC	CCAGTGGACG	CTCACGACTT	ATTTAGATGT	240
ACAGCGGTGC CTGGAATATT	TGGGCTATCT	AGGCTATTCA	ATATTGACTG	AGCAAGAGTC	300

TCAAGCTTCA	GCTGTTACAG TGACAAGAGA	TAAAAAGATA	GACCTGCAGA	AAAAACAAAC	360
TCAAAGAAAT	GTGTTCAGAT GTAATGTAAT	TGGAGTGAAA	${\tt AACTGTGGGA}$	AAAGTGGAGT	420
TCTTCAGGCT	CTTCTTGGAG AAGACTCGAG				450
(2) INFORMA	TION FOR SEQ ID NO:20	3:			
(i)	SEOUENCE CHARACTERISTI	CS:			
	(A) LENGTH: 558 bas	e pairs			
	(B) TYPE: nucleic a	cid			
	(C) STRANDEDNESS: d	ouble	•		
	(D) TOPOLOGY: linea	r			
(ii)	MOLECULE TYPE: cDNA				
(xi)	SEQUENCE DESCRIPTION:	SEQ ID NO:	203:		
GA እ ምምርርርርር	TTCATGGCCT AACTGGTTTC	TGGCTCGTGG	ANTCTGTTTC	AAGATCATAT	60
	CATTCCCAAG NAGCGCTGGG				120
	TTAATGCTTG TTCAACATTA				180
	TGCGAANCTG TACGTGACCC				240
	CTGTTCTTAC TGCCAGTTGC				300
AGGTCTCCAT	CCAGGTTTTC AAATACTTCA	CCTCCAACAG	TTTCATTATC	TGGATTCAAA	360
CAGATCTCTA	TCATATTATA AAGGGCATTT	TGGCCCCAGT	CACGATCTTT	CCGAGCTTTA	420
TTAAAATGTC	GAAGGGCATC ATTTGGTTCT	CCAGTGTACC	AAAGATACAG	TCCTTTACAA	480
TACTGAAATC	CTGGTTCCAA TTTTGCTCTG	GAGNNACGTT	TCTCAGCCAT	TGAGAAAAAT	540
CTTGGGACAT	CCCTCGAG				558
(2) INFORM	ATION FOR SEQ ID NO:20	4:			
(i)	SEQUENCE CHARACTERIST				
	(A) LENGTH: 348 bas				
	(B) TYPE: nucleic a				
	(C) STRANDEDNESS: d				
	(D) TOPOLOGY: linea	ır			
(ii)	MOLECULE TYPE: cDNA			•	
, ,,	anamenan neaghthmian	. CEO ID NO.	204.		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:

GAATTCGGCC	TTCATGGCCT	ACAAGTAGGG	ACTGACTTCT	CTAGGTTCCT	ACAAAGCTCT	60
TCAACCACAC	TCATTTCAAG	CTCTGTCAGA	ACAGCATCTG	AATTAGGAGG	ACTTTGGGAT	120
TCTGGGATAC	AGGAAGTATC	CAGAGCTTTG	GATATAAAAA	ACCCTGGGAC	AGATATTTTG	180
CAGCCTGAAG	AGACCTATAT	AGACCCTACT	ATGATACAAT	CTTTAACTTT	TCCTTTGGCC	240
CTTCATAATC	AAAGCTCCGA	TAAGACAGCT	AACATTGTGG	AAAACCCATG	TCCTGAGATT	300
CTAGGAGTGG	ATGTAATATC	TAAAGAGACA	ACTAGGAGGA	AGCTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:205:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

GAATTCGGCC TTCATGGCCT AAGAAAAAA AGAAAGAAAA AAAATGATAC TTTCCAGGTT

161/63/6/6/6	
ACTAGTGTGT TTTCAAGCTT CTATTCTTAG GCATGTTACT TCCTTTTGGA AGTCAAAACC	120 180 240 292
(2) INFORMATION FOR SEQ ID NO:206:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:	
GAATTCGGCC TTCATGGCCT AAAATATTAA AATCTTTGAA GAAGAAGAAG TTGAATTTAT CAGTGTGCCT GTCCCAGAGT TTGCAGATAG TGATCCTGCC AACATTGTTC ATGACTTTAA CAAGAAACTT ACAGCCTATT TAGATCTTAA CCTGGATAAG TGCTATGTGA TCCCTCTGAA CACTTCCATT GTTATGCCAC CCATCTCGAG GCAGGTCTAG	60 120 180 220
(2) INFORMATION FOR SEQ ID NO:207:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:	
GAAAAAATGG CCAAGGCTAC TGGGAAACTA AAGCCAACTT CTAAAGATCA GGTATTGGCC ATGCTAGAGA AAGCCAAAGT TAACATGCCA GCCAAGCCTG CTCCACCCAC TAAAGCAACT TCTAAACCAA TGGGAGGGTC CGCTCCAGCC AAATTCCAGC CTGCATCAGC ACCTGCTGAA GATTGTATTT CCAGCAGTAC AGAACCCAAA CCTGATCCAA AAAAGGCCAA AGCTCCAGGA TTATCCTCTA AAGCAAAGAG TGCACAAGGG AAGAAGATGC CAAGCAAAAC CAGCTTAAAG GAGGATGAAG ACAAATCCGG GCCTATACTC GAG	60 120 180 240 300 333
(2) INFORMATION FOR SEQ ID NO:208:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:	
GGAGACAAGT TCTCCTCAGT GAACTGGCAG TACCAGTGTG GGCTTACCTG TGAGCACAAG GCCGACCTTC TCCCTATCAG TGCATCCGTC CAGTTTATTA AAATTCCTGC ACAGTTACCC CACCCCCTGA CAAGATTCCA GATCAATTAT ACAGAGTATG ACTGCAACAG AAATGAGGTG TGTTGGCCGC AGCTTCTATA TCCATGGACT CAGTATTATC AAGGGGAGCT GCATTCTCAG TGTGTTGCTA AGGGCTTACT GTTGCTGTTG TTCCTCACAT TGGCCTTGTT CCTCAGCAAC CCCCGGACCA CTCGAG	120 180 240 300 316

300 316

- (2) INFORMATION FOR SEQ ID NO:209:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 517 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:

GAATTCGGCC AAAGAG	GCCT ATGTCCCTGT C	CCATCTTAGA (GGCTGACCAA	GCCCAGCCAT	60
GGGTGGTCCA AATTGC	TTAG GTGGTCCCAA I	TTGCTTGGCT (GGCCCAAGAG	ATGTCTGGTT	120
CTTAACAATA CAAGAG	CCTA TAGAAATTGC T	FAAAGGGATT	TCAGCCACAA	CTGAAGCTCA	180
CCAAGAATGA GTTTTC	TGGA ACTGGTTAAA G	GTGTCACAGT A	AGGGAGTAAG	GAAATAAGAA	240
TCCCCACCAA ACATAA	GAGA ACAGAATGAT A	AATAGTCCCT A	ACTAGTCCAT	GACAAGGCTG	300
CCAATTAGGC ATTLAA	AGCT ATCAAAGATG A	ATGCTGTGAG (GGACCTGGCA	ACTTTTGTAA	360
TAGTCTGACT TTAAAT	GTTT TATTAATGGC C	CAAGCAGCAA A	ATATTTTAGG	ATTTGTAGGC	420
TATATGGTCT CTGTCC	CAAT TACTCCATTC I	rgctactgta (GCATAAAAGC	AGCGATACAT	480
CCTAAACCCG TCGATT	GAAT TCTAGACCTG C	CCTCGAG			517

- (2) INFORMATION FOR SEQ ID NO:210:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 829 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:

GAATTCGGCC	AAAGAGGCCT	AAGAACATGA	AACATCTGTG	GTTCTTCCTT	CTCCTGGTGG	60
CAGCTCCCCG	ATGGGTCCTG	TCCCAGGTGC	AGCTGCAGGA	GTCGGGCCCA	GGACTGGTGA	120
AGCCTTCGGA	GACCCTGTCC	CTCACCTGCA	CTGTCTCTGG	TGATTCCATC	AGTCATTACT	180
ACTGGACCTG	GATCCGGCAG	CCCCCAGGGC	AGGGACTGGA	GTGGATTGGA	TATTTCTATT	240
CACCCGGGAA	CTCCAACTAC	AATCCCTCCC	TCAAGAGTCG	AGTCACCATG	TCAGTCGACA	300
CGTCCACGAA	CCAGTTCTCC	CTAAAACTCA	NTTCTGTGAC	CACTGCGGAC	ACGGCCGTCT	360
ATTACTGTGC	GAGAGACCTA	TATTGCCGTG	GGGGAACCTG	CTACCCCGCG	AGACTTGACC	420
GCTGGGGCCA	GGGAACCCGG	GTCATCGTCT	CGTCAGCCTC	CACCAAGGGC	CCATCGGTCT	480
TCCCCCTGGC	ACCCTCCTCC	AAGAGCACCT	CTGGGGCACA	GCGGCCCTGG	GCTGCCTGGT	540
CAAGGACTAC	TTCCCCGAAC	CGGTGACGGT	GTCGTGGAAT	TCAGGCGCCC	TGACCAGCGG	600
CGTGCACACC	TTCCCGGCTG	TCCTACAGTC	CTCAGGACTC	TACTCCCTCA	GCAGCGTGGT	660
GACCGTGCCC	TCCAGCAGCT	TGGGCACCCA	GACCTACATC	TGCAACGTGA	ATCACAAGCC	720
CAGCAACACC	AAGGTGGACA	AGAAAGTTGA	GCCCAAATCT	TGTGACAAAA	CTCACACATG	780
CCCACCGTGC	CCAGCACCTG	AACTCCTGGG	GGGACCGTCA	GTCTTCCTC		829

- (2) INFORMATION FOR SEQ ID NO:211:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 142 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:

GAATTCGGCC AAAGAGGCCT AGTTAATCTG ATAAATTCAC CATCAATTTG GTAAGCTTTA ATATAACTAC CCTGTTTTTT GAATACAGAT AATGCAAAAG AAAACCATTT TATACTCGGC TATATACCTT CCACCACTCG AG	60 120 142
(A) INTODUSTRON FOR ATO TO NO 212	
(2) INFORMATION FOR SEQ ID NO:212:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 555 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:	
GAAATTCGGC CAAAGAGGCC TAGTGGAATC ATTCTGCCAC ACCATTTCCT ACTCAAATAG	60
GTACAAACAT ACCACAGACA CTCCCATATA CACATGCTCC TCTATCCGCC AACTCTGGAA	120
CCAAAACTAA ATTGGTCTTC AAGAGAGATG ATGGCTTTAA GAACAAAAAT AGCCTTATCC	180
TCTATTTTAC TTGCTGTACT GTTGTACTGT TTATTTAAGA AACAAGCTGG TGGTTGATGT CCAGGAAAAA TTATCTTTTC AAAATGAGGG AAGAGGAGGT TCACCATGTG GATATGGTGT	240 300
GCCTTTCAAC ATCCTTAAGG ATTGTTGATA TCATTATTGT TAATCAATTG TTGTCAGCAC	360
AGTGGCTGCC CAAGCTGTGC AAATGAAACA GCCAATCAGC AGGAGAAAGT GATGAAATTA	420
AATGACCTCT TTCCTTAACC ACTCATCCGT AAGCCTTGTT ATTTTCATA CAAACCTCGA	480
GCCGGGGGAG GAGGGCCGC GGCGAATGCT GGGAGAGTCA GGTCTAGAAT TCAATCGTAG GCCTCTTTGG CCGAA	540 555
(2) INFORMATION FOR SEQ ID NO:213:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 97 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:	•
GAATTCGGCC AAAGAGGCCT ACGAGAAGGG CGGTGTGTAC AAAGGGCAGG GACTTAATCA	60
ACGCAAGCTT ATGACCCGCA CTTACTGGGA ATTCCTC	97
(2) INFORMATION FOR SEQ ID NO:214:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 487 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:	
	~ -
GAATTCGGCC AAAGAGGCCT AAGAAGAAAT TGGTAGATTG CGAGAAGAGA TAGAAGAATT AAAACGTAAT CAGGAACTTT TACAAAGCCA GCTGACTGAA AAGGACTCTA TGATTGAAAA	60 120
TATGAAATCT TCCCAAACAT CTGGCACAAA TGAACAGTCT TCAGCATAG TTTCAGCTAG	180
AGATTCTGAA CAAGTTGCAG AATTAAAACA GGAACTGGCA ACTTTAAAGT CTCAGTTAAA	240

CTCACAATCT GTGGAGATCA	CCAAACTACA	GACAGAAAAG	CAGGAACTGT	TACAGAAAAC	300
AGAAGCGTTT GCAAAATCAG	TTGAGGTACA	AGGAGAGACC	GAGACTATAA	TAGCCACCAA	360
AACTACTGAT GTAGAAGGAA	GACTGTCAGC	ATTATTACAA	GAGACCAAAG	AGTTAAAGAA	420
TGAAATTAAA GCTCTGTCTG	AGGAAAGAAC	TGCCATTAAA	GAGCAGCTGG	ATTCATCTAA	480
TAGTACC					487

- (2) INFORMATION FOR SEQ ID NO:215:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 584 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

GAATTCGGCC	AAAGAGGCCT	ACTGGGCCTT	TCAGCACCTG	CTCCAGCTTC	ACCTTGGTGA	60
ACATCAGGTT	GAAGTTCTCA	GGGTGCTCGG	TGATGGCCAT	GTTGACAACA	TCCAGGGCAT	120
GCTGGTGGTG	CTTCTGGGCA	GAGAAGAGCA	GTGCCAGCAG	GTGGAGGGCG	TGGGCATCAT	180
CCTTGCGTAC	CTTCAGGGCC	TCCTGCAGCT	GCTCCATGGC	ACTGGAGATC	TGTCGGACGA	240
GGGCCAGCTG	CAGCGAGACA	TAGAGGATGA	CCTGGGGGTC	ACTGGGCGCC	AGCTGCTGAG	300
CCCTCTCCAG	CGTCTGCAGT	GCCTTCCGGT	GCAATTCATC	TTGCTTGGAC	TTCAGGGTGG	360
CGTCGGTGGC	CTGCAGGCTA	TAGGTGAGAC	CCAGAGCCAG	GTAGCCCTTG	GGGAGGAACT	420
CCCCGGCTTC	CTCTCCGAGG	CTGATCACCA	TCATGGCAAA	GTGCTCTGCT	TCCTCTAGCC	480
AGCGAAGGGA	CCCGATGCAG	ACCTTCGCGG	CCATCAGGGG	CACGGTGGGG	TCCGAGGGCC	540
GCAACTTCAC	ACACTCCCGC	AGCAGGGACA	CAGCGTAGGC	TGAC		584
GGGCCAGCTG CCCTCTCCAG CGTCGGTGGC CCCCGGCTTC AGCGAAGGGA	CAGCGAGACA CGTCTGCAGT CTGCAGGCTA CTCTCCGAGG CCCGATGCAG	TAGAGGATGA GCCTTCCGGT TAGGTGAGAC CTGATCACCA ACCTTCGCGG	CCTGGGGGTC GCAATTCATC CCAGAGCCAG TCATGGCAAA CCATCAGGGG	ACTGGGCGCC TTGCTTGGAC GTAGCCCTTG GTGCTCTGCT CACGGTGGGG	AGCTGCTGAG TTCAGGGTGG GGGAGGAACT TCCTCTAGCC	300 360 420 480 540

- (2) INFORMATION FOR SEQ ID NO:216:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 532 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216:

GAATTCGGCC A	AAGAGGCCT	AGACCTGCCC	TAAAGATAGA	GTCTTGATGC	ACCGTCTACC	60
TTGTCCCCAA C	CAAGAGTGA	GTAGTGCACA	GAAGTCTCCT	GGCACCCTGG	GAATCCTGCA	120
TTTTTAATGG A						180
GCCCCTGTGA C	CAAAGCAGC	CCAAATCAGT	TACCTTGACA	ACTCTCATGC	ACAGACTGCA	240
CCAGCCTGTG T	TGCAAACAT	CACTGCCCCG	CTTCTAACAG	GAAGAGATAC	TCTTTTGGGG	300
GTCTTGCAGG G	CCCAGGACC	AGAGCCCCTT	CTACCCAGGG	CCCTTCCAAA	GGCAAAGCAC	360
AGAGTCACAT T						420
AGGTTTCAGT G	CTTTTTCTG	GGGACATTGG	TGCCTATCTC	TATTCTGAGA	GTTGTTCTCC	480
TCATAGGACA C	CATAAATCG	CATCCAGGAC	CTGCTGGCTG	AGGGTACTCG	AG	532

- (2) INFORMATION FOR SEQ ID NO:217:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 269 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:

GAATTCGGCC	AAAGAGGCCT	AGTGTGTCCG	GGTCTTATAC	AAAAACAACA	CAGTGAATGA	60
AGGAATAAAT	ATTTATTGAA	TGGAAAATCA	GCAAAGGAAA	AAATTGTATA	ATTGTCAATG	120
ACAATGGGAA	GCACATAGTG	AGGCTATGAG	TGATTTGGAA	ATCATGAGCG	TGCAGTGTTT	180
TGTTCACGCA	TTTCGGTTGT	GTTTTCAGAA	AGTAACTACA	ACATAGCATC	ATGTAGCAGA	240
ATTGCTGGTT	GTAAGCAAAA	AGGCTCGAG				269

- (2) INFORMATION FOR SEQ ID NO:218:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 675 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:

GAATTCGGCC AAAGAGGCCT AATTCTTTTT CTTTTTAATT TGAAGAAAAA TCATCAGTCT	60
GAMILGGCC AMGAGGCCI MIICIIII CIIIIIIII IOMAGILMAN IOMAGICA	~ ~
TGGAATACAG AAGAGAAACT AGAAATATAC GTATTTTGTT TCACATTTGA ACAGTCATTC	120
TTGAGGAATA CTCCATACCT GAGTAGACAG CCATGTGGCC ATCGCAGCTA CTAATTTTCA	180
TGATGCTCTT AGCTCCAATA ATTCATGCTT TCAGCCGTGC CCCAATTCCA ATGGCTGTGG	240
TCCGCAGAGA GCTATCCTGT GAGAGCTATC CTATAGAGCT TCGCTGTCCA GGAACAGACG	300
TCATCATGAT AGAAAGTGCC AACTATGGCA GGACTGATGA CAAAATTTGT GACTCTGACC	360
CTGCTCAGAT GGAGAATATC CGATGTTATC TGCCAGATGC CTATAAGATT ATGTCTCAAA	420
GATGCAATAA CAGAACCCAG TGTGCAGTGG TGGCAGGTCC TGATGTTTTT CCAGACCCGT	480
GTCCAGGAAC CTATAAATAC CTTGAAGTGC AGTATGAATG TGTCCCTTAC ATTTTTCTTT	540
GTCCTGGACT ACTAAAAGGA GTATACCAGA GTGAACATTT GTTTGAGTCC GACCACCAAT	600
CTGGGGCGTG GTGCAAAGAC CCTCTGCAGG CATCTGACAA GATTTATTAT ATGCCCTGGA	660
CTCCCTACAG AACTG	675

- (2) INFORMATION FOR SEQ ID NO:219:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 414 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:

GAATTCGGCC	AAAGAGGCCT	ACTCCCTGTT	TTGAACAAGT	TTTTTTGAGA	ATTCTTAGTT	60
TTAGTTTTTG	TTTAGCTTAC	ACACTGAAAA	TTTTGAGAAG	CATCTAAAAA	AATCCACAAT	120
TAGTGCAAAA	AGAGGGGACA	ATACTTTAAG	TCATTCCTTC	TATAAAAAGA	ATTAAGGTTA	180
CTAAATGCCA	ATTTTTAAGC	AAATATATAG	TTTCCTATTT	GCCTTCTGAA	AGACAGCAGA	240
TATAAAAATA	GTTCAATATT	AGGTTTAACA	AGGTTTGAAC	AACACATGTA	CTATCAGCTT	300
TATTTTACCT	GCAAAAATAT	TTTAGCTACA	CTTGGAAAAA	AATAAACTTG	AGAATATAAC	360
TTCACATTTC	TAAGGCCAGA	TGCAAGAATA	CTTATTTAGG	CCTCTTTGGC	CGAA	414

- (2) INFORMATION FOR SEQ ID NO:220:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 120 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:

GACCGTCGAT TGAATTCTAG ACCTGCCTCG AGATTGGAGA CAGAAGGTCC CGGGAGCAGA 60
AAGCCAAACA GGAGCGGGAG AAAGAACTGG CAAAAGTCAC TATCAAGAAG GAAACTCGAG 120

- (2) INFORMATION FOR SEQ ID NO:221:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 333 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:

GAATTCGGCC	AAAGAGGCCT	AAGCAGCAGC	TGCTTATATG	CATGTGAACA	GCTGGGGAAT	60
TAATTTGGTA	TGCATTCTCA	GGAGCCACTC	ATCTGCTGGC	AGAGGTAGCA	GAAGAATGCC	120
CTTAGTGTAA	GTCCTCTACA	ACCATACACC	AAATGTGCTC	CCTGCATTTC	AAATTCCATT	180
		TCACTTATAC				240
CCTGTTAGTG	TTCTACAATT	CCTTTCTCCT	TAATTTTTCT	CCGCTTTACA	AAATGTCACA	300
CAGACAAGTG	CATAATACTT	AAACAAGCTC	GAG			333

- (2) INFORMATION FOR SEQ ID NO:222:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 817 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:

GAATTCGGCC	AAAGAGGCCT	AAGAAAAGCA	CCCTTATTAA	GAATTGCAGC	AAGTAAGCCA	60
ACAAGGTCTT	TTCAGGATGA	TTTTCTTATA	TCAAGTGGTA	CATTTCATTT	TATTTACTTC	120
AGTTTCTGGT	GAATGTGTGA	CTCAGTTGTT	GAAGGACACC	TGCTTTGAAG	GAGGGGACAT	180
		GCGCCAAGTA				240
		CGGCGGAATC				300
		TTACAGAAAC				360
		AATGCTCACA				420
		GCATAAACTA				480
		ATGACGTCCA				540
		GAAATCTTTG				600
						660
		GCAAAGCTCT				
CAGCATCCCA	GTGTTCTGCC	ATTCTTCATT	TTACCATGAC	ACTGATTTCT	TGGGAGAAGA	720
ACTGGATATT	GTTGCTGCAA	AAAGTCACGA	GGCCTGCCAG	AAACTGTGCA	CCAATGCCGT	780
		ATACCCCAAC				817
CCCCACCCGC						

- (2) INFORMATION FOR SEQ ID NO:223:
 - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 587 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:

GAATTCGGCC	AAAGAGGCCT	AGGAGATACA	TCATCATATC	ACGGAAAGAG	ATGCAGATAG	60
ATCTTTGACC	ATACTTGATG	AACAGTTATA	CTCATTTGCG	TTTTCCACCG	TGCACATTAC	120
GAAGAAAAGA	AATGGAGGTG	GGAGTTTAAA	TAACTATTCC	TCCTCCATTC	CATTGACTCC	180
CAGCACCAGC	CAGGAGGACC	TTTATTTCAG	TGTTCCTCCC	ACTGCCAACA	CACCCACGCC	240
CGTTTGCAAG	CAGTCCATGG	GCTGGTCCAA	CCTGTTTACA	TCTGAGAAAG	GGAGTGACCC	300
AGACAAAGGG	AGGAAAGCCC	TGGAGAGTCA	CGCTGACACC	ATCGGGAGCG	GCAGAGCCAT	360
CCCCATTAAA	CAGGGCATGC	TCTTAAAGCG	AAGTGGGAAA	TGGCTGAAGA	CGTGGAAAAA	420
GAAATATGTC	ACCCTGTGTT	CCAATGGCGT	GCTCACCTAT	TATTCAAGCT	TAGGTGATTA	480
TATGAAGAAT	ATTCATAAAA	AAGAGATTGA	CCTTCGGACA	TCTACCATCA	AAGTCCCAGG	540
AAAGTGGCCA	TCCCTAGCCA	CATCGGCCTG	CGCACCCATC	TCTCGAG		587

- (2) INFORMATION FOR SEQ ID NO:224:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 534 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224:

GAATTCGGCC	AAAGAGCCTA	AGTAGTTGCT	GCCTTTCTTC	AGATCAGGTT	ACCACAATGC	60
		ATCCCCCACA				120
GAACCCACTT	TGCCGGTGCT	AAAACACAAG	AGGGGGTGAA	AGTGGCTGCC	AGTAATGGCC	180
AGAAACCAAC	CACCAGAGGC	CAGGCTGAAA	GACAAGCTCC	GGGTGTCCAG	GGGCTGACGG	240
GCCAACCATG	TGGCAGGTCC	CAGGCCCCAC	CCACTGCGCC	ATCCGTCTCT	GAGCTCCACA	300
GTGGTCCCAC	TAATGGGAAC	CTCCTCTAGG	GAGAGTGATA	CTGCACCTTC	ACCCGTAGGA	360
CTCATATTTA	TAACAATGTG	TAATGGCTGT	AGCAAAAAGC	CCTTGTTTCT	AGATGTAAAT	420
GGTCAAAGAA	ACAAGCGCTC	TATTGTTTTG	AATAAAATAG	TTCAAATGAG	TCCTGTATCA	480
TTGTATCTCC	TATTCTGGAT	TAGTGCCTTT	TGGACAGTAG	ACTGTAACCT	CGAG	534

- (2) INFORMATION FOR SEQ ID NO:225:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 118 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:225:

GCTCCACTCT CTCCCTATCC ATTTGTAAGA ACAGGCTCCC CTCGCCGAAT ACAGTTGTCT 60
CAAAATCATC CTGTCTACAT TTCCCCACAT AAAAATGAAA CAATGCTTTC TCCTCGAG 118

- (2) INFORMATION FOR SEQ ID NO:226:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 582 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:226:

GAATTCGGCC A	AAGAGGCCT	AAATTTTAGT	AGAGATGGAA	TTTCACCATA	TTGGCCAGGC	60
CGGTCTCAAA C	CTCTTGACCT	CAAGTGATCT	GCCCGCCTCG	GCCTCCCAAA	ATGTTGAGAT	120
TACAGGCGTG A	AGCCACCATG	CCTCTCTTAC	ATTCTTTTCT	TCTGTTCACT	ACAGCCGTGG	180
AGAGCTCCGG G	STTGTCCTGC	ACATGTGCAC	TGCCCTCTCT	TTTATGGACC	TTTTAGGCTG	240
GCTGCACCCT C	CCGTCTGTGT	CACCCTCCTG	CTCCTCCTCC	ACCTGGCTAG	TTCCTGTTGG	300
CCACTTTTGG A	AAATTCATGC	CAGTCCAGTC	CACCCTGAGT	ACATCCTCTT	TCTGTGTCAC	360
TGAGCTCACT A	ATGCTGGGTT	TTATCTATGT	CTCCCTCGCA	ACTAGATCAT	TCACGTCTTG	420
AAGTTAGGCA T	CATGCGTTC	TTCATTTCTG	TACCTCCCAA	CTCAATGCTT	AGCACCCAGC	480
AGGGGCTCAA C	ACTGTGTGT	GGAATGAAGG	ATTCGTGTGA	AAATGCAGGG	AGATGGAAGG	540
CTGAGCGTTT C	CTGTTCCTTG	ACCATTCCCG	GGTTGGCTCG	AG		582

- (2) INFORMATION FOR SEQ ID NO:227:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 461 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:227:

GAATTCGGCC	AAAGAGGCCT	AAAAACTTAT	AAATAAGTGA	GACTACTGCC	CCCTAGCCTA	60
AAATTCATTC	CCTGCGCTCA	CTCAACATCA	TAGTTCTTTA	GGAAGACAAG	TTGTTCTATA	120
		TAGATAGTCT				180
CAGTTATGCA	GCTCAAAATG	CCTCTCATTT	TCCTGCTTTT	TTTTCTTCTA	CTATTGTTGC	240
		CATGTTATTC				300
		CCACACAGTC				360
		TCACAAGTTT				420
		ATTGTCCCCA				461

- (2) INFORMATION FOR SEQ ID NO:228:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 133 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:228:

GCCTAAACCG	TCGATTGAAT	TCTAGACCTA	TCTCGAGAAA	GAGTTGTTCT	GGAAAGAAAT	60
GAAGAAAAGA	GCAGAACCAA	TCTCAAGCAG	CCAAGTGGTG	AAGTTGGATG	TATGTGACCC	120
TACGTCTCTC						133

(2) INFORMATION FOR SEQ ID NO:229:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:229:

GAAAGGGATC AAAAAGAAAA	AGTGATCGAA	TGGAATCTAC	TGATACCAAA	CGACAAAAGC	60
CTTCTGTCCA TTCAAGACAA	CTGGTTTCTA	AGCCACTGAG	CTCATCTGTT	AGCAATAACA	120
AAAGAATAGT TAGTACAAAA	GGAAAGTCAG	CCACAGAGTA	TAAAAATGAG	GAATATCAAA	180
GATCTGAAAG AAACAAGCGT	CTAGATGCTG	ATCGGAAAAT	TCGTCTATCA	AGTAGTGCCT	240
CCAGAGAACC TTATAAGAAT	CAACCTGAAA	AAACCTGTGT	CCGGAAAAGG	GATCCTGAAA	300
GGAGGGCCAA ATCTCCTACG	CCAGATGGTT	CTGAGAGAAT	${\tt TGGGCTTGAA}$	GTGGATAGAC	360
GTGCAAGCAG ATCCAGCCAG	TCTTCTAAGG	AAGAAGTGAA	CTCTGAAGAA	TATGGCTCTG	420
ACCATGAGAC TGGCAGCAGT	GGTTCTTCTG	ATGAGCAAGG	GAACAACACT	GAAAATCTCG	480
AG					482

- (2) INFORMATION FOR SEQ ID NO:230:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 501 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:230:

GAATTCGGCC	TTCATGGCCT	AGGGGATAAA	TGTAAGCTTG	TTAAAGTAAG	CACCACACCA	60
TGTTTCTGTC	TCCCCAGCAC	CCAGCACAGT	GCTGTGAACC	TTGGCAGATG	CTAGATAAAT	120
GTGTGTTGAA	TGAATGTGCC	TATGAAGCCA	CAAAGATGCC	ACATGTTAGT	ATATCAGTGA	180
GAGGTGACTC	CACAGTGCTC	TCTGGAGAAG	CAATATGAGT	GACTGAAGAG	TGGGGCCTTT	240
TGCTTTTGCC	TGGATATAGG	GGTGCTCTTC	TACTGTAATT	GGGTGTGGAA	AAACTCTGGC	300
TTTATGGTAT	TCCATTAGGT	TCTTTTCATT	TAAAGTAGTC	TTAAAATCAA	AGTATCCAAT	360
ATTTTAAAGC	CACAAAGTAG	ATTACATAAT	TAGCAGAGAT	TTTAGTCAGT	AAAATGTTAG	420
AAATCAAACT	ATAAGAAAAT	TCAAGTCCTT	TATTTTGTGT	CTTGGGTATA	TGTCATTATT	480
TTAAATTCCA	CAGCTCTCGA	G				501

- (2) INFORMATION FOR SEQ ID NO:231:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:231:

GAATTCGGCT	TCGATTGAAT	TCTAGGACTT	GACAGAATTC	GAGTTATCCT	TCTCAGAACA	60
TGTGCAGAGT	CTCTTTTTGC	CTCACCATGT	GGTCCTGTGC	TCTTTCAGGT	GGGAGTTTTG	120
GGGCCTCCAG	GGCAGCAGGC	ACCACCTCCA	TATCCCGGCC	CACATCCAGC	TGGACCCCCT	180
GTCATACAGC	AGCCAACAAC	ACCCATGTTT	GTAGCTCCCC	CCCAAAGACC	CAGCGGCTTC	240
TTCACTCAGA	GGCCTACCTG	AAATACATTG	AAGGACTCAG	TGCGGAGTCC	AACAGCATTA	300

GCAAGTGGGA TCAGAGCAAT CTCGAG

326

- (2) INFORMATION FOR SEQ ID NO:232:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:232:

GAATTCGGCC	TTCATGGCCT	AATCAGAAGC	TTTTCAAAAT	TCCGTCTTCA	AGAAGAAACA	60
CCCGTGGAGG	AAGAAGACAT	TATACAAAAC	AAATTTAGAA	ACTGGGATCA	TGAGTGGAAA	120
AACAAAGGCA	AGAAGGGCTG	CCATGTTTTT	TAGACGTTGC	TCTGAAGACG	CCAGCGGTAG	180
CGCCAGTGGC	AATJCTTTGT	TATCAGAGGA	CGAAAATCCT	GATGCGAATG	GGGTAACTCG	240
ATCATGGAAG	ATTATTCTAA	GTACAATGCT	TACACTGACT	TTTCTTCTTG	TAGGACTCCT	300
AAATCATCAG	TGGCTTAAAG	AAACAGATGT	TCCTCAGAAA	TCCAGACAAT	TATATGCCAT	360
GCTCGAG						367
	CCCGTGGAGG AACAAAGGCA CGCCAGTGGC ATCATGGAAG AAATCATCAG	CCCGTGGAGG AAGAAGACAT AACAAAGGCA AGAAGGGCTG CGCCAGTGGC AATJCTTTGT ATCATGGAAG ATTATTCTAA AAATCATCAG TGGCTTAAAG	CCCGTGGAGG AAGAAGACAT TATACAAAAC AACAAAGGCA AGAAGGGCTG CCATGTTTTT CGCCAGTGGC AATJCTTTGT TATCAGAGGA ATCATGGAAG ATTATTCTAA GTACAATGCT AAATCATCAG TGGCTTAAAG AAACAGATGT	CCCGTGGAGG AAGAAGACAT TATACAAAAC AAATTTAGAA AACAAAGGCA AGAAGGGCTG CCATGTTTT TAGACGTTGC CGCCAGTGGC AATJCTTTGT TATCAGAGGA CGAAAATCCT ATCATGGAAG ATTATTCTAA GTACAATGCT TACACTGACT AAATCATCAG TGGCTTAAAG AAACAGATGT TCCTCAGAAA	CCCGTGGAGG AAGAAGACAT TATACAAAAC AAATTTAGAA ACTGGGATCA AACAAAGGCA AGAAGGGCTG CCATGTTTT TAGACGTTGC TCTGAAGACG CGCCAGTGGC AATJCTTTGT TATCAGAGGA CGAAAATCCT GATGCGAATG ATCATGGAAG ATTATTCTAA GTACAATGCT TACACTGACT TTTCTTCTTG AAATCATCAG TGGCTTAAAG AAACAGATGT TCCTCAGAAA TCCAGACAAT	GAATTCGGCC TTCATGGCCT AATCAGAAGC TTTTCAAAAT TCCGTCTTCA AGAAGAAACA CCCGTGGAGG AAGAAGACAT TATACAAAAC AAATTTAGAA ACTGGGATCA TGAGTGGAAA AACAAAGGCA AGAAGGCTG CCATGTTTTT TAGACGTTGC TCTGAAGACG CCAGCGGTAG CGCCAGTGGC AATJCTTTGT TATCAGAAGAC CGAAAATCCT GATGCGAATG GGGTAACTCG ATCATGGAAG ATTATTCTAA GTACAATGCT TACACTGACT TTTCTTCTTG TAGGACTCCT AAATCATCAG TGGCTTAAAG AAACAGATGT TCCTCAGAAA TCCAGACAAT TATATGCCAT GCTCGAG

- (2) INFORMATION FOR SEQ ID NO:233:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:233:

GAATTCGGCC T	TTCATGGCCT	AAAGAAGAAT	TGACACCTCT	TGGAGTCCAC	TTGGCACGAT	60
TACCCGTTGA (CCACATATT	GGAAAAATGA	TTCTTTTTGG	AGCACTGTTC	TGCTGCTTAG	120
ACCCAGTACT (CACTATTGCT	GCTAGTCTCA	GTTTCAAAGA	TCCATTTGTC	ATTCCACTGG	180
GAAAAGAAAA (GATTGCAGAT	GCAAGAAGAA	AGGAATTGGC	AAAGGATACT	AGAAGTGATC	240
ACTTAACAGT	TGTGAATGCG	TTTGAGGGCT	GGGAAGAGGC	TAGGCGACGT	GGTTTCAGAT	300
ACGAAAAGGA (CACACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:234:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:234:

GAATTCGGCT TCATGGCCT	CGATGAGGCT	GCTGTCATTT	GTGGTGTTGG	CTCTATTTGC	60
TGTCACTCAA GCAGAGGAA	GAGCCAGGCT	TTTGGCTTCC	AAATCACTGC	TGAACAGATA	120
CGCCGTGGAG GGACGAGAC	TGACCTTGCA	GTACAACATC	TACAATGTTG	GCTCAAGTGC	180
TGCATTAGAC GTGGAACTA	CTGATGATTC	CTTCCCTCCA	GAAGACTTTG	GCATTGTGTC	240
TGGAATGCTC AATGTCAAA	r GGGACCGGAT	TGCCCCTGCT	AGCAATGTCT	CCCACACTGT	300
GGTCCTGCGC CCTCTCAAG	G CTGGTTATTT	CAACTTCACC	TCGGCAACAA	TCCTCGAG	358

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- (2) INFORMATION FOR SEQ ID NO:235:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 513 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:235:

GAATTCGGCT TCATGGCCTA	GTTGTACGTA	ATGTATTTAT	ATGTTAATTT	GTTATGTATA	60
TAGATGTGCA AGTCTTGTCA	GAATTGGCCT	CAGTGTAGTT	AAAGGGCAGA	AGGGGAAGAT	120
ACTGACTAGT CATAGAAATA	CCTCATTCGC	CTGTGGGAAG	AGAAGGGAAG	CCTCTTCAGG	180
GTGAGTGAAT GGCAAAGCGG	TTGCTTCTGG	CTCCTCCTTC	CCCTGTGGTC	TTGGAAGTGT	240
GTGGAAGGCA GGGACAGAGA	TGGAGGCCGA	GCCAATAGAC	TGAAGAGACC	ACAGCAATTG	300
GCTCCTCCAT CTAGAGATTT	TCTTGGCAGT	ATTCCATGGG	ATGTTAAGCA	AAGGAAACCA	360
AAGGAATCGT TTCAAATGGA	CTCATGGCTT	AGAAATCTTT	ATTCTTAGGG	CAGTCAGTAG	420
TATTCTAAAG CTTTCTGACA	AGATAAAGGA	AGTCACCAAA	ATTTCTTTTT	TTAAATTGTA	480
TCTAATCCTC AACAACAAAC	CAAAACTCTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:236:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:236:

GAATTCGGCC	TTCATGGCCT	ACTTGGAAAT	GTTTGATGCT	ACTCTGAAAG	ATCGAGAACT	60
GAGCTTTCAG	TCGGCTCCAG	GTACTACCAT	GTTTCTGCAT	TGGCTAGTGG	GAATGGTATA	120
		TCATTCTACT				180
GTGGTTTCTA	AGGAATTTGA	ATGATCCAGA	TTTCAATCCA	GTACAGGAAA	TGATCCATTT	240
GCCAATATAT	AGGCATCTCC	GAAGATTTAT	TTTGTCAGTG	ATTGTCTTTG	GCTCCATTGT	300
CCTCCTGATG	CTTTGGCTTC	CTATACGTAT	AATTAAGAGT	GTGCTGCCTA	ATTTTCTTCC	360
ATACAATGTC	ATGCTCTACA	GTGATGCTCC	AGTGAGTGAA	CTGTCCCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:237:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 337 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:237:

TTCATGGCCT	AGAGATATGC	TTCTTTGTAC	CAATATGGAA	AATCTAAAAG	AAAAAACCCA	60
CACTCAGCAC	TATGAATGTT	ATAGGTACCA	AAAACTGCAG	AAAATGGGCT	TTACAGATGT	120
GGGTCCAAAC	AACCAGCCAG	TTAGTTTTCA	AGAAATCTTT	GAAGCCAAAA	GACAAGAGTT	180
CTATGATCAA	TGTCAGAGGG	AAGAAGAAGA	GTTGAAACAG	AGATTTATGC	AGCGAGTCAA	240
		AAGAAGCTGA				300

TAAAATGATT CAACAGGAGG AGATAAGGAA GCTCGAG

337

- (2) INFORMATION FOR SEQ ID NO:238:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 750 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:238:

GAATTCGCGC	ATTCGGTACA	ACAAGAGAGA	TAAACGATGA	AACCGTTACA	TTATACAGCT	60
TCAGCACTGG	CGCTCGGACT	GGCGTTAATG	GGGAATGCAC	AGGCAGTGAC	GACCATTCCG	120
TTCTGGCATT	CTATGGAAGG	GGAACTGGGT	AAAGAGGTGG	ATTCTCTGGC	CCAACGTTTT	180
AACGCCGAAA	ACCCGGATTA	CAAAATTGTA	CCGACCTATA	AAGGCAACTA	CGAACAGAAT	240
TTAAGCGCGG	GGATTGCCGC	ATTTCGTACC	GGCAACGCGC	CGGCTATTTT	GCAGGTTTAT	300
GAAGTTGGCA	CCGCCACCAT	GATGGCGTCG	AAAGCCATTA	AACCGGTGTA	TGACGTGTTT	360
AAAGAGGCAG	GGATTCAGTT	CGATGAGTCG	CAGTTTGTGC	CGACGGTTTC	AGGTTACTAC	420
TCCGACAGCA	AAACGGGCCA	CTTACTCTCC	CAGCCATTCA	ACAGCTCGAC	CCCCGTTCTC	480
TATTACAACA	AAGACGCCTT	CAAGAAAGCA	GGATTAGACC	CGGAACAGCC	GCCGAAAACC	540
TGGCAGGATC	TGGCGGACTA	TGCCGCGAAA	CTGAAAGCCT	CCGGCATGAA	GTGCGGCTAC	600
GCCAGCGGCT	GGCAGGGCTG	GATCCAACTG	GAAAACTTTA	GCGCCTGGAA	CGGTCTGCCG	660
TTTGCCAGCA	AAAACAACGG	CTTTGACGGC	ACGGACGCGG	TGCTGGAGTT	CAATAAGCCG	720
GAGCAGGTGA	AACACATCGC	CATGCTCGAG				750

- (2) INFORMATION FOR SEQ ID NO:239:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 490 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:239:

GAATTCGGCC	TTCATGGCCT	ACTTACAGAA	CCTATTCACT	GGGAAGGAAG	CCCTCATTAT	60
AATGATTTTC	ATTCTTATGT	GTGTTTCAGG	ACGACTGGGT	TTGGATTCAG	AAGAGGATTA	120
TTATACACCA	CAAAAGGTGG	ATGTTCCCAA	GGCCTTGATT	ATTGTTGCAG	TTCAATGTGG	180
CTGTGATGGG	ACATTTCTGT	TGACCCAGTC	AGGCAAAGTG	CTGGCCTGTG	GACTCAATGA	240
ATTCAATAAG	CTGGGTCTGA	ATCAGTGCAT	GTCGGGAATT	ATCAACCATG	AAGCATACCA	300
TGAAGTTCCC	TACACAACGT	CCTTTACCTT	GGCCAAACAG	TTGTCCTTTT	ATAAGATCCG	360
TACCATTGCC	CCAGGCAAGA	CTCACACAGC	TGCTATTGAT	GAGCGAGGCC	GGCTGCTGAC	420
CTTTGGCTGC	AACAAGTGTG	GGCAGCTGGG	CGTTGGGAAC	TACAAGAAGC	GTCTGGGAAT	480
CAACCTCGAG						490

- (2) INFORMATION FOR SEQ ID NO:240:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 425 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:240:

GAATTCGGCC	TTCATGGCCT	ACTTCTGGAC	TCTATAGAAC	CCACTGCCTC	CTGATGAAGT	60
CCCTACTGTT	CACCCTTGCA	GTTTTTATGC	TCCTGGCCCA	ATTGGTCTCA	GGTAATTGGT	120
ATGTGAAAAA	GTGTCTAAAC	GACGTTGGAA	TTTGCAAGAA	GAAGTGCAAA	CCTGAAGAGA	180
TGCATGTAAA	GAATGGTTGG	GCAATGTGCG	GCAAACAAAG	GGACTGCTGT	GTTCCAGCTG	240
ACAGACGTGC	TAATTATCCT	GTTTTCTGTG	TCCAGACAAA	GACTACAAGA	ATTTCAACAG	300
TAACAGCAAC	AACAGCAACA	ACAACTTTGA	TGATGACTAC	TGCTTCGATG	TCTTCGATGG	360
CTCCTACCCG	TTTCTCCCAC	TGGTTGAACA	TTCCAGCCTC	TGTCTCCTGC	TCTAGGATCC	420
TCGAG						425

- (2) INFORMATION FOR SEQ ID NO:241:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 461 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:241:

GAATTCGGCC	TTCATGGCCT	AACCAGAACT	AATTTGCTAA	GTCTTTTGTT	TAGTCCTGCA	60
AGACTGATGC	TTAATACACA	GTCTGTTCTC	CTGTGTCTAG	GTCAGGAACT	CCAGTTTGCT	120
TTTCTGTTTT	GTGTCCTGGT	AGCAGCTGTT	GAGTAACTTT	CATTGGAGGT	TGGGAAGGAA	180
GTGAGGAGAA	AGTGTTCTTG	TTTAGTGTTT	TATTTCCTAT	AATAGGATGC	TGCCTAACCC	240
AGTTCATCTC	TATGTCCTGT	TCACTGAATA	TTCCGGGTAA	TTGAAAGAAA	ATATAATGGA	300
TGGGCTCCAT	TAAAACCAGC	TCAAAAATAA	ATTCTTGTCA	GTAAAGATTT	CTTGTCAAGA	360
TGTCTTGGAT	TGCACTTTTG	TTGAGGAAAG	ACAGTGTAAA	TAGTTAAAGA	ATGTTGATAA	420
AATTGAAACA	TTTGGTTGTG	GAATTGTGTG	TGGTACTCGA	G		461

- (2) INFORMATION FOR SEQ ID NO:242:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 508 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:242:

GAATTCGGCC	TTCATGGCTT	ATGGACAAGG	AAGCATTCAG	AGCATGGTGT	CATCTGACTC	60
CACATCACCA	GATTCTTCTT	TAACAGAAGA	ATCACGTTCT	GAGACAGCCA	GTAGTTTATC	120
CCAGAAGATT	TGTAATGGGG	GATTATCTCC	TGGTAACCCA	GGAGATTCTA	AGGACATGAA	180
GGAAATTGAG	CCCAATTATG	AAAGTCCCTC	TAGTAATAAT	CAGGATAAAG	ATTCATCACA	240
GGCTTCCAAA	AGCTCAATAA	AAGTTCCAGA	GACCCACAAA	GCAGTCCTTG	CTCTCCGATT	300
AGAAGAGAAA	GATGGCAAGA	TTGCTGTACA	AACTGAGAAG	GAAGAAAGTA	AAGCCTCTAC	360
AGATGTTGCT	GGGCAAGCAG	TAACCATAAA	CCTTGTCCCC	ACAGAAGAGC	AAGCAAAACC	420
TTACCGAGTT	GTGAACCTGG	AACAGCCATT	GTGCAAGCCA	TATACTGTCG	TGGATGTGTC	480
AGCAGCCATG	GCCAGTGAGC	ACCTCGAG				508

- (2) INFORMATION FOR SEQ ID NO:243:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 323 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:243:

GAATTCGGCT	TCATGGCCTA	GGTTTTCTGT	ACATGGAGAT	TAAACTGTCT	TCCAAAGTGA	60
AGAGTTTATT	GTTCTAGATC	TTGAGCACAA	AGGTTGGTAT	ACGTTAATAA	AAAAATAGC	120
AAGGGAAGAA	AATCATTTCC	TTCATACCAA	GTAAGAGAGC	ACTTATCATG	GTAGGCACTG ·	180
GCTTTGCAAT	TATGAGACCA	${\tt GTAGTAGAAA}$	TAGCTTTAGT	TTCCTCAATT	TTCCTGGAGT	240
ATTCTTCAGA	CTTTCTTTAC	ACTGCTCAAG	GTGGGGCGAG	TGGCAGGGCG	GACCCTGGCG	300
ACCTGACGCT	GCGGAGGCTC	GAG				323

- (2) INFORMATION FOR SEQ ID NO:244:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 396 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:244:

GAATTCGGCC	TTCATGGCCT	AGCTTCAGTA	GCAAATAAGG	ACATCATCTG	CTATAACCTA	60
CAAGCAGTTG	GACAGATATT	CTACATTTCC	TCATTTCTCT	ACACCGTCAA	TTACATCTGG	120
TATTTGTACA	CAGAGCTGAG	GATGAAACAC	ACCCAGAGTG	GACAGAGCAC	ATCTCCACTG	180
GTGATAGATT	ATACTTGTCG	AGTTGGTCAA	ATGGCCTTTG	TTTTCTCAAG	CCTGATACCT	240
CTGCTATTGA	TGACACCTGT	ATTCTGTCTG	GGAAATACTA	GTGAATGTTT	CCAAAACTTC	300
AGTCAGAGCC	ACAAGTGTAT	CTTGATGCAC	TCACCACCAT	CAGCCATGGC	TGAACTTCCA	360
CCTTCTGCCA	ACACATCTGT	CTGTAGCACA	CTCGAG			396

- (2) INFORMATION FOR SEQ ID NO:245:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:245:

GAATTCGGCC	TTCATGCTTA	GCCTCAGCTC	TTTCTTCTGG	GTTGTTTGTA	TTTTCTTTTC	60
TGTCCCAAAC	AGTTTCCCCC	ACAAAAAGAA	CTTTATGTCT	TTCTCTGTCT	TCCCTCAGTC	120
CTTCCAGTCA	GCAGCCTGTG	ATTGGGCTTT	TCCCCTCAGA	AACGAACAAT	CCAGAACCCA	180
CTGTTTAAAA	CAACTGTATT	TTGCCTTGGG	AAGTCCCATT	GCCTTCCCTG	AAAACATTAA	240
ACATTCCTCC	GATCCCCAGC	CTGAGTCTCT	CTGTCTCTGG	GCCCCATCCT	GCTCCACAGC	300
AGGGCTGGTG	TGTCCAGCAC	AGAGTGACCC	TCCGATGCCC	TTTCCCACCC	GCCGCCCTGC	360
CTCCCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:246:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:246:

GAATTCGGCC	TTCATGCCTA	GAGAACTTGA	AGCTTTGCGG	CAGGAATTTA	AAAAGAAAGA	60
CAAGACGTTG	AAAGAGAATT	CCAGAAAGTT	GGAGGAAGAA	AATGAGAATC	TCCGAGCAGA	120
GCTACAGTGT	TGTTCTACAC	AACTGGAATC	CTCTCTCAAC	AAATACAACA	CCAGCCAGCA	180
AGTCATCCAA	GACTTGAATA	AAGAGATAGC	CCTTCAGAAG	GAGTCCTTAA	TGAGCCTGCA	240
GGCCCAGCTG	GACAAAGCTC	TGCAGAAGGA	GAAGCACTAT	CTCCAGACTA	CCATCACCAA	300
AGAAGCCTAT	GATGCATTAT	CCCGGAAGTC	AGCCGCCTGC	CAGGATGACC	TGACACAAGC	360
CCTCGAG						367

- (2) INFORMATION FOR SEQ ID NO:247:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 450 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:247:

GAATTCGGCC	TTCATGGCCT	ACGGCTTCAT	AGTAACTCTT	TGCCATATCT	CTAGCCAGCT	60
GCATAAAACG	TTCGCCATCA	GATGGAGACA	AAAGGTTTAA	AATACGCCTA	TAACCATCCA	120
TGGCCATTTT	ATGATCACCC	ATCTGTTCAT	AAAGGCTTGA	TCGCTCCCAC	AGATAACGGA	180
CATTAGTAGG	TTCATATTTA	AGAGCTTTTG	TATAGCAAAA	AATAGCCTGC	TTAATATTGT	240
CTTGTTCCAG	AGACATTTCT	GCCAGTCTAA	CCCATTCTTC	TGTGTCACTG	GGATTTAAAT	300
GCGCAGCAAT	CAACTCAAAC	TGCAATGATT	TTTCCATGTC	ACCTTGGTCC	TCATATATCA	360
TGGCTAGAGT	AGAGAATGGC	TCATAAGCCA	GAGGAGCTTG	TCTTATGATT	TCCATGCACA	420
TCAATATCGC	CTCTTCACGT	TCTCCTCGAG				450

- (2) INFORMATION FOR SEQ ID NO:248:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 408 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:248:

GAATTCGGCC TTCATGGCCT AACGAAACTG ACGTCTACCT CATGGGGCTG CTGTGTGGGT	60
TTGGGAGGCA AAAATCTATG AAGGGTTTTT TGAAATCCCA TAGGTGCCAC ATCTATGAGA	120
TGTTTGATAA ATGTGAATAT GCTTTTACAT TTGGGCTTAT CTAATTTGCA ATAAGAGAG	180
CTCTCTCTAT CAACACCAGC TTCTCTCTCG GGCTGTTTGC TCAGGGAAGG CAAGAAAGCC	240
ACGTGCTGGC CCTCTGCCTT CTCTAAAGTG CTGTTGGAGC ATGGAGGAGC TGGAGGAGAT	300
GGGGATGGAC TGACAGCTAA GAGGGCGGCT GCTGGGACTA GATAGTGGAT GAAGAAAGAA	360
GGACGAGGAA GCCGTGGGGC AGCCTCTTCA CATGGGGACG AACTCGAG	408

- (2) INFORMATION FOR SEQ ID NO:249:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 562 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:249:

GCCCATGACA	GAGAGCAGTG	CCAAAGACAT	GGCGTACGAA	CATCTGATAG	ATGACTTATT	60
GGCTGCTCAG	AAGGAAATTC	TGTCTCAGCA	GGAAGTCATC	ATGAAGTTAA	GGAAAGACCT	120
TACCGAAGCC	CACAGCAGAA	TGTCGGATTT	GAGAGGGGAG	CTAAACGAGA	AGCAGAAGAT	180
GGAACTGGAG	CAGAACGTGG	TGCTGGTCCA	GCAGCAGAGC	AAGGAGCTGA	GTGTGCTCAA	240
GGAGAAGATG	GCCCAGATGA	GCAGCCTGGT	AGAAAAGAAA	GATCGGGAGC	TGAAGGCCCT	300
TGAGGAGGCA	CTCAGGGCTT	CCCAAGAGAA	ACACAGACTC	CAGCTGAACA	CAGAGAAGGA	360
ACAGAAGCCC	CGGAAGAAGA	CCCAGACGTG	TGACACCTCT	GTGCAGATAG	AACCCGTCCA	420
CACTGAGGCC	TTCTCCAGCA	GCCAAGAGCA	GCAATCCTTC	AGCGATCTAG	GGGTCAGGTG	480
CAAAGGGTCC	CGGCACGAGG	AGGTCATTCA	GCGTCAGAAA	AAGGCCTTAT	CTGAACTTCG	540
AGCGCGAATT	AAAGAACTCG	AG				562

- (2) INFORMATION FOR SEQ ID NO:250:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:250:

GAATTCGGCC	TTCATGGCCT	ACCCAAACAG	ACAGAAAACG	CCACGAGGCA	AGTGTAGTCT	60
CTCACAGCCT	GGACCCTCTG	TCAGCAGTCC	ACATAGCAGG	TCCACAAAAG	GTGGCTCCGA	120
TTCCTCCCTT	TCTGAGCCAG	GGCCAGGTCG	GTCCGGCCGC	GGCTTCCTGT	TCAGAGTCCT	180
CCGAGCAGCT	CTTCCCCTTC	AGCTTCTCCT	GCTCCTCCTC	ATCGGGCTTG	CCTGCCTTGT	240
ACCAATGTCA	GAGGAAGACT	ACAGCTGTGC	CCTCTCCAAC	AACTTTGCCC	GGTCATTCCA	300
CCCTATGCTC	GAG :					313

- (2) INFORMATION FOR SEQ ID NO:251:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 291 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:251:

GTCTTGACAA	AACCTAACTT	GCGCAGAAAA	CAAGATGAGA	TTGGCATGGC	TTTATTTGTT	60
TTTTTTGTTT	TGTTTTGGTT	TTTTTTTTT	TTTTGGCTTG	ACTCAGGAGA	TCCCTCCCCG	120
GGGCTCCCGC	CGGCTTCTCC	GGGATCGGTC	GCGTTACCGC	ACTGGACGCC	TCGCGGCGCC	180
CATTTCCGCC	ACTCCGGATT	CGGGGATCTG	AACCCGACTC	CCTTTCGATC	GGCCGAGGGC	240
AACGGAGGCC	ATCGCCCGTC	CCTTCGGAAC	GGCGCTCGCC	CAACTCTCGA	G	291

(2) INFORMATION FOR SEQ ID NO:252:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 384 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:252:

CGGGAAATGA	AGCGGAAGCA	GGCGGAGTCC	GAGAGGCCCA	TCTTGCCAGC	CAATCAGAAG	60
CTCATTACTT	TATCAGTGCA	AGATGCACCC	ACAAAGAAAG	AGTTTGTTAT	TAACCCCAAC	120
GGGAAATCCG	AGGTCTGCAT	CCTGCACGAG	TACATGCAGC	GTGTCCTCAA	GGTCCGCCCT	180
GTCTATAATT	TCTTTGAATG	TGAGAACCCA	AGTGAGCCTT	TTGGTGCCTC	GGTGACCATT	240
GATGGTGTGA	CTTACGGATC	TGGAACTGCA	AGCAGCAAAA	AACTTGCGAA	GAATAAAGCT	300
GCCCGAGCTA	CACTGGAAAT	CCTCATCCCT	GACTTTGTTA	AACAGACCTC	TGAAGAGAAG	360
CCCAAAGACA	GTGAAGAACT	CGAG				384

- (2) INFORMATION FOR SEQ ID NO:253:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:253:

GGGACGTTGG	TGTTGAGGTT	GGCATACGTA	TCAAGGACAG	TAACTACCAT	GGCTCCCGAA	60
GTTTTGCCAA	AACCTCGGAT	GCGTGGCCTT	CTGGCCAGGC	GTCTGCGAAA	TCATATGGCT	120
GTAGCATTCG	TGCTATCCCT	GGGGGTTGCA	GCTTTGTATA	AGTTTCGTGT	GGCTGATCAA	180
AGAAAGAAGG	CATACGCAGA	TTTCTACAGA	AACTATGATG	TCATGAAAGA	TTTTGAGGAG	240
ATGAGGAAGG	CTGGTATCTT	TCAGAGTGTA	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:254:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 497 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:254:

GAGTTTGTTG	GGCTTACCTT	${\tt ATTTTAATTA}$	AAAAGAAGTC	GGGGCTACCA	GGGGTTTCAG	60
ACGTGCTCGA	TGGACACGTG	ATTTGTAAAC	AGCCAAGATT	CTGGGGGACG	GGGGGGTGCC	120
TCGGTGGGGT	TGACATTTGA	GTTACAGGGA	CTTAATAATG	GCCAGCCTTT	CACATCCCAT	180
GGGAAACCGC	CCCCCCGGGC	CTTGGAGAAT	GGGGGTCCAA	GTGCCTATCC	CCCTTTGGAT	240
GTAAAATTCA	TCGTTAGTAA	ACATCATCCG	CCCAGCAACA	AGCAAAGCAC	ATCGCAAGAT	300
TAAAACAAAG	AATCCGCCGT	GAACAGAAGG	CCTCCATCTC	TGCTCTCAGG	CAGGTGTCCT	360
TCAGGGAGGA	GCCTCAGGCA	GCTGTTCTAA	CCCTGCTGCC	AACGCCTGGG	CTGTTTCTGC	420
CGACAATCTT	CTATTTCTCT	AAAAGAGTAC	GCTGAACAGC	TGGCTCTGCG	TTGATTGAAT	480
TCTAGACCTG	CCTCGAG					497

(2) INFORMATION FOR SEQ ID NO:255:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 470 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:255:

GAATTCGGCC	TTCATGGCCT	AGAGAACCGT	TGCTTTTCCG	AGTTGCTCTT	CTTCCAGGCT	60
CCGTTGGTGG	TCGGCATGGC	CCGTGGAAAT	CAACGAGAAC	TTGCCCGCCA	GAAAAACATG	120
AAGAAAACCC	AGGAAATTAG	CAAGGGAAAG	AGGAAAGAGG	ATAGCTTGAC	TGCCTCTCAG	180
AGAAAGCAGA	GGGACTCTGA	GATCATGCAA	GAAAAGCAGA	AGGCAGCTAA	TGAGAAGAAG	240
TCTATGCAGA	CAAGAGAAAA	GTGATGACTG	GCTATTTGGA	AAACCTGGGT	GCTACTGCCA	300
ACTGGGTGTA	TCATAAGCTC	TAAGATCAAG	ATTTTGTAGA	GTGGACAGTC	ATTACATATG	360
TTATAACTTA	TCCTTTAAAA	ACTATTTTAA	ACTTTATCCT	TTCAGCTTTA	CTTAGTGCGA	420
TGTTTTAGAA	GCAGTCTTCA	AAGAATAAAA	CACTAACCAT	GCTGCTCGAG		470

- (2) INFORMATION FOR SEQ ID NO:256:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 388 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:256:

GAATTCGGCC	TTCATGGCCT	AATTTTGTAT	TTTTAGTGGA	GACGGGGTTT	CTCCATGTTG	60
GTCAAGCTGG	TCTTGAACTC	CCAACCTCGG	GTGATCCGCC	CGCCTTGGCC	TCCCAAAGTG	120
CTGGGATTAC	AGGCGTGAGC	CACCGCGCCT	GGCCAGTAGT	TTCTTAACAT	TAAATTATCC	180
GCAAAATGGA	AGAAATACTA	GAGGTCTGTG	AGGATGTTTC	TTCTCTTTCA	GTCTGTTGTG	240
GTGGTTTGTA	GTTTACAGGG	GCTTGGGTAA	CTGGATTTTT	AGGTTTATTA	TTTTAAATAG	300
TAGACTCAAC	ACTATTTTGT	ATTGCAGTAG	AGATCACTTA	TGCAGATCTT	TTTAATACCA	360
TTTCATAGAG	ATTAAGGGTC	ACCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:257:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 333 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:257:

GAAACAGGGC	TCAAAGAAGT	GGTAACTGCT	GTGGAGGAAA	TGACAAGTAA	AGGAAAACCA	60
GGACAAGAAG	TCTTGGAAGA	CGACCAGGAA	AATACTTTAA	AATATGAGTA	TGAAGAAGAC	120
TTTGAAGTAG	ATGAGGAGAA	ACAAGGTGAA	AAATCTAATG	AAGAAGGACA	GGCTGATGTT	180
CAAATGAATG	GAATACCGCA	GTCACCTTTG	GATGATAAAA	AAGATAATTT	AGACCCTGAA	240
AAAGAGAGTG	AAACCTCATC	ACAGAAGGCA	CCAGATGCCC	GTGACAATGT	GAAAGATGAG	300
AATGATGGAT	GCTCTGAGAG	TGAACGTCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:258:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 544 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:258:

CACAGTGCTG	GNTCACAACA	AGATGNTCNA	GGTGTCAGCC	GTACTGTGTG	TGTGTGCAGC	60
CGCTTGGTGC	AGTCAGTCTC	TCGCAGCTGC	CGCGGCGGTG	GCTGCAGCCG	GGGGGCGGTC	120
GGACGGCGGT	AATTTTCTGG	ATGATAAACA	ATGGCTCACC	ACAATCTCTC	AGTATGACAA	180
GGAAGTCGGA	CAGTGGAACA	AATTCCGAGA	CGATGATTAT	TTCCGCACTT	GGAGTCCAGG	240
AAAACCCTTC	GATCAGGCTT	TAGATCCAGC	TAAGGATCCA	TGCTTAAAGA	TGAAATGTAG	300
TCGCCATAAA	GTATGCATTG	CTCAAGATTC	TCAGACTGCA	GTCTGCATTA	GTCACCGGAG	360
GCTTACACAC	AGGATGAAAG	AAGCAGGAGT	AGACCATAGG	CAGTGGAGGG	GTCCCATATT	420
ATCCACCTGC	AAGCAGTGCC	CAGTGGTCTA	TCCCAGCCCT	GTTTGTGGTT	CAGATGGTCA	480
TACCTACTCT	TTTCAGTGCA	AACTAGAATA	TCAGGCATGT	GTCTTAGGAA	AACAGAATCT	540
CGAG						544

- (2) INFORMATION FOR SEQ ID NO:259:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 393 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259:

GAATTCGGCC TTCATGGCCT ACA GCCCGCCCG GAGCTACCGA ATC GTTTCTCCCT GGATTCCATG GCC GTCACCTGGC GACGGTGAAG CCT	AGAACCT ACATTTACA CTGTGCT GCTGGCAGCC AGTTTCC TCCAGAGAGA	CACCCCTCAG CGGGGTTAGG TTATGCTGCT	CTCAGAGCTT GCATTTCGTT CTCCATCCAA	60 120 180 240
GTGAAGTGGC AATGGTGCCA GCC				300
GGCTGACAAT AAACTCCTTT ATT	CTACCCT CTTCTGTTCT	CATAAGGAGA	THII I III MALL	360
CTGGAAGAGA TGAAGCTTGC ATT	TTACCCAA GAC			393

- (2) INFORMATION FOR SEQ ID NO:260:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 705 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260:

GAATTCGGCC AAAGAGGCCT	AAGGGATTGT	TATTCCTTTA	AAAAAAAACC	AATACCAAAG	60
AAGCCTACAA TGTTGGCCTT	AGCCAAAATT	CTGTTGATTT	CAACGTTGTT	TTATTCACTT	120
CTATCGGGGA GCCATGGAAA	AGAAAATCAA	GACATAAACA	CAACACAGAA	CATTGCAGAA	180
GTTTTTAAAA CAATGGAAAA	TAAACCTATT	TCTTTGGAAA	GTGAAGCAAA	CTTAAACTCA	240
GATAAAGAAA ATATAACCAC	CTCAAATCTC	AAGGCGAGTC	ATTCCCCTCC	TTTGAATCTA	300
CCCAACAACA GCCACGGAAT	AACAGATTTC	TCCAGTAACT	CATCAGCAGA	GCATTCTTTG	360

GGCAGTCTAA	AACCCACATC	TACCATTTCC	ACAAGCCCTC	CCTTGATCCA	TAGCTTTGTT	420
TCTAAAGTGC	CTTGGAATGC	ACCTATAGCA	GATGAAGATC	TTTTGCCCAT	CTCAGCACAT	480
CCCAATGCTA	CACCTGCTCT	GTCTTCAGAA	AACTTCACTT	GGTCTTTGGT	CAATGACACC	540
GTGAAAACTC	GTGATAACAG	TTCCATTACA	GTTAGCATCC	TCTCTTCAGA	ACCAACTTCT	600
CCATCTGTGA	CCCCCTTGAT	AGTGGAACCA	AGTGGATGGC	TTACCACAAA	CAGTGATAGC	660
TTCACTGGGT	TTACCCCTTA	TCAAGAAAAA	ACAACTCTAC	CTACC		705

- (2) INFORMATION FOR SEQ ID NO:261:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 729 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261:

GAATTCGGCC AAAGAGGCCT	ACCTTACTTG	AGTCCACAGG	CAAGGCCCAA	TAATGCATAT	60
ACTGCCATGT CAGATTCCTA	CTTACCCAGT	TACTACAGTC	CCTCCATTGG	CTTCTCCTAT	120
TCTTTGGGTG AAGCTGCTTG	GTCTACGGGG	GGTGACACAG	CCATGCCCTA	CTTAACTTCT	180
TATGGACAGC TGAGCAACGG	AGAGCCCCAC	TTCCTACCAG	ATGCAATGTT	TGGGCAACCA	240
GGAGCCCTAG GTAGCACTCC	ATTTCTTGGT	CAGCATGGTT	TTAATTTCTT	TCCCAGTGGG	300
ATTGACTTCT CAGCATGGGG	AAATAACAGT	TCTCAGGGAC	AGTCTACTCA	GAGCTCTGGA	360
TATAGTAGCA ATTATGCTTA	TGCACCTAGC	TCCTTAGGTG	GAGCCATGAT	TGATGGACAG	420
TCAGCTTTTG CCAATGAGAC	CCTCAATAAG	${\tt GCTCCTGGCA}$	TGAATACTAT	AGACCAAGGG	480
ATGGCAGCAC TGAAGTTGGG	TAGCACAGAA	GTTGCAAGCA	ATGTTCCAAA	AGTTGTAGGT	540
TCTGCTGTTG GTAGCGGGTC	CATTACTAGT	AACATCGTGG	CTTCCAATAG	TTTGCCTCCA	600
GCCACCATTG CTCCTCCAAA	ACCAGCATCT	TGGGCTGATA	TTGCTAGCAA	GCCTGCAAAA	660
CAGCAACCTA AACTGAAGAC	CAAGAATGGC	ATTGCAGGGT	CAAGTCTTCC	GCCACCCCCA	720
ACACTCGAG					729

- (2) INFORMATION FOR SEQ ID NO:262: .
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 686 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:262:

GAATTCGGCC	AAAGAGGCCT	ACTACCATGT	CCTCTTGGAG	CAGACAGCGA	CCAAAAAGCC	60
CAGGGGGCAT	TCAACCCCAT	GTTTCTAGAA	CTCTGTTCCT	GCTGCTGCTG	TTGGCAGCCT	120
				GTTCCGCTCA		180
GCTCCATCTC	CTGTCAACCA	CCTGCCGAAA	TCCCCGGCTA	CCTGCCAGCC	GACACCGTGC	240
				CAACCTCCTC		300
				AAGCCTCTCG		360
				AAACGCCCTG		420
				GGTATTGAAA		480
				TCTGGGGCAT		540
				CAACTTCACC		600
CCCTTGACCT	TGGGGAGAAC	CAGTTGGAGA	CCTTGCCACC	TGACCTCCTG	AGGGGTCCGC	660
TGCAATTAGA	ACGGCACATT	CTCGAG				686

(2) INFORMATION FOR SEQ ID NO:263:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 571 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:263:

GAATTCGGCC	AAAGAGGCCT	AGGAGAGAGG	AGGTGCTGCA	AGACTCTCTG	GTAGAAAAAT	60
GAAGAGGGTC	CTGGTACTAC	TGCTTGCTGT	GGCATTTGGA	CATGCTTTAG	AGAGAGGCCG	120
GGATTATGAA	AAGAATAAAG	TCTGCAAGGA	ATTCTCCCAT	CTGGGAAAGG	AGGACTTCAC	180
ATCTCTGTCA	CTAGTCCTGT	ACAGTAGAAA	ATTTCCCAGT	GGCACGTTTG	AACAGGTCAG	240
CCAACTTGTG	AAGGAAGTTG	TCTCCTTGAC	CGAAGCCTGC	TGTGCGGAAG	GGGCTGACCC	300
TGACTGTTAT	GACACCAGGA	CCTCAGCACT	GTCTGCCAAG	TCCTGTGAAA	GTAATTCTCC	360
ATTCCCCGTT	CACCCAGGCA	CTGCTGAGTG	CTGCACCAAA	GAGGGCCTGG	AACGAAAGCT	420
CTGCATGGCT	GCTCTGAAAC	ACCAGCCACA	GGAATTCCCT	ACCTACGTGG	AACCCACAAA	480
TGATGAAATC	TGTGAGGCGT	TCAGGAAAGA	TCCAAAGGAA	TATGCTAATC	AATTTATGTG	540
GGAATATTCC	ACTAATTACG	GACAGCTCGA	G			571

- (2) INFORMATION FOR SEQ ID NO:264:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:264:

GAATTCGGCC	AAAGAGGCCT	ACCAAGCAAG	AACAGCTAAA	ATGAAAGCCA	TCATTCATCT	60
TACTCTTCTT	GCTCTCCTTT	CTGTAAACAC	AGTCACCAAC	CAAGGCAACT	CAGCTGATGC	120
TGTAACAACC	ACAGAAACTG	CGACTAGTGG	TCCTACAGTA	GCTGCAGCTG	ATACCACTGA	180
AACTAATTTC	CCTGAAACTG	CTAGCACCAC	AGCAAATACA	CCTTCTTTCC	CAACAGCTAC	240
TTCACCTGCT	CCCCCCATAA	TTAGTACACA	TAGTTCCTCC	ACAATTCCTA	CACCTGCTCC	300
CCCCATACTC	GAG					313

- (2) INFORMATION FOR SEQ ID NO: 265:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 343 base pairs
 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

GAATTCGGCC	TTCATGCCTA	GCCTCTGAGT	TCAGCTCAGA	ACACAGATGA	TCTCATTGAT	60
TCCTCACGTC	AACCTTGGGA	AATCTGGGTA	CCCTGGGACG	TCCACACATG	AGGACCGAGG	120
CTCAGGGACA	TCAAGGGACT	GGCCTGGTCC	CAGAAACAGG	GAGTAAAATG	GGAAGTAAAC	180
TCAGTCCCAC	GTCTGCCTGA	CTCCAGAGTT	TGGGCCACTG	AACCATGCGG	CTGCCATCTT	240
GGAGTTCTTT	GAGCTGTGAA	GTGCTGTGCA	TCGTGTGATT	CTGTGTCCCT	TTTGTGCAGG	300
TACCAGGATT	TCTATGCATT	CGACCTGTCA	GGAGCCACTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO:266:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:266:

GAATTCGGCC	TTCATGGCCT	ACAGGAAGCA	CAGAAAGACA	AAATTGGAAA	TGTCTAGTTC	60
CATGTTGATG	CCTTCAGAAG	ATGCAGGTGA	ACAAAGAGAG	GCCGGGAAAT	CAGAGCTAGT	120
TGAAACCCAA	CATGTTACCT	TAGAGCCAGA	GCTACCACTG	AGTTCTCTAA	GCACAGTCAA	180
ATCCCAGGAT	TATGCTGAAA	CAGAGCAGGA	GGTCATTTTA	CAAGCTATAG	AGGCCATGGA	240
GGCCACAGAA	GCCCTGGAGG	CCACAGACGC	CATGGAAGCC	ATAGATCAAG	GTAGCATGAA	300
AGATTATGGA	GATGTGATCT	CTAAGCTGGA	AAGACTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:267:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:267:

GAATTCGG	CC	TTCATGGCCT	AGGCACCCCT	AGGCGACTCA	GGGTTCGGGG	AGGAGGAGAC	60
CAGACGGG	GC	CTTGGCTGGC	ATGGCCTCTT	CACAGGGCTG	CCGTGAAGAA	ACTTCGTGAC	120
AGCGGCGG	AG	AGGTGGCCCA	GGAGTGAGAC	AAGCAGGCCC	CGGGCCTTGG	ACTCAGACAT	180
GCTGGGTC	CG	GTCAGGCCCG	TGTGGGAACC	AGTGTTTTAG	GGACTGGGTA	CTCTCTTAGA	240
GAAGAACT	GA	TGCTAAAGAG	TCAGGAAGAC	ACGAGCGGGC	CAAATAAAAG	AGGAAGAGAG	300
GCCCTCAG	GA	CATCATGGCA	CTTACTGCTT	GGATTTGTCT	CCCCGTCCAG	AATTCTGTGG	360
ACTCGAG							367

- (2) INFORMATION FOR SEQ ID NO:268:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:268:

GAATTCGGCC '	TTCATGGCCT	ACTTGGGAAT	TAACATCTTC	GATAAATCCC	AGAAGTCTTT	60
AAGTGACAGT	AGAGAGCCTA	CAGAGAAGCC	TGGGAAAGCA	GAAAAATCTA	AGAGCCCAGA	120
AAAAGTGTCA	TCGTTCTCAA	ACTCCTCCTC	CAACAAGGAA	TCAAAAGTAA	ACAATGAGAA	180
GTTTCGTACT :	AAGAGCCCCA	AGCCTGCCGA	AAGCCCCCAG	TCAGCCACTA	AGCAGTTGGA	240
TCAGCCCACT	GCTGCTTATG	AGTATTATGA	TGCTGGCAAT	CACTGGTGCA	AAGACTGCAA	300
CACCATCTGT	GGGACTCGAG					320

(2) INFORMATION FOR SEQ ID NO:269:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 542 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:269:

GAATTCGGCC	AAAGAGGCCT	AGGGATATTT	ACTGAGGGCC	TACAGGGTGC	CCAATACTGA	60
GCTAGCTAGG	CTCAGGGACC	TGTACACACA	TGCATTCTCC	${\tt ATTAGGGTTC}$	TGCAATCCTG	120
ACACTATTAC	TATCCTCAAG	GACTCTGCGC	ATCCAGACCC	GTCTATTAGT	TAGCAATGAG	180
AACCCCTGCC	ATGGCCAAGT	TACACAAGAA	CACCCTTGCC	CTACCTCTGC	CCCCTGCNGA	240
TCTGAAAGTA	ACCTGGTCTG	AAAGAGAAGT	AAAGATGTGG	CTGTCCCTGG	GTGCTAGGGA	300
GAGAGGCCTG	TTGACAAAGC	CACCAGCTGT	CTCCAGTCAG	AGCCAGGGAG	ACAGGCTTCT	360
CCCTGCACCA	TCCGCACTGC	CATAGACACA	GCAGCCAGCA	ACAGCACTTG	GACCATTACG	420
GAGTTCCAGG	CCCAGTCTCC	AACTGACCTC	CCTCCTGCTC	CAGCTGCCCA	TGCTAACAAG	480
AGCCAGGGCA	CAAGACCTCA	CTTGGAACAA	GTACCAGGCA	GAAGAGAGCA	TNACCNGCCG	540
GT						542

- (2) INFORMATION FOR SEQ ID NO:270:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 613 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:270:

GAATTCGGCC AAAGAGCCTA	GTCGATTGAA	TTCTAGACCT	GCCTCCTTTT	CCACTTGAAT	60
TGTTAAATTG TTTACTCCAG	CATCTTTAAG	TATTCCTGTA	ACCTGCTGTA	CTATTCTTTG	120
TTCTAGCACA TCAGATGTCA	CCTGTATATG	AATTGTTCCT	GCCACAATAC	TAGCAGAATG	180
ACGCCAAAAA TGTGGGTCTC	GGTATGATAT	TAATCCTTCA	ATTTTCTGTA	TCTTTTCTAA	240
AGCAATATGT AGTTCTTTTT	CATATTCTGG	TGGCAATCTC	AGGAGTAGAA	CCTGGCAGGC	300
ATCTTTAATC AGTGGAACAA	CACTGAGAAA	TATTAATATA	GCAATAAAAA	GAGAACAGAG	360
TGGGTCAGCG ATGAACCATC	CAAACTGCTC	TATAAGAACT	GTGGATACGA	TCACACCAAT	420
GCTGCCAAGA GTATCTGCCA .	AAACATGTAG	AAATACACCC	CTCATGTTAG	CATTCATGCC	480
TCCACCCGCA GATCCGTGGC	TGTGACCATG	CCCATGGTCA	CTGTGTCCAT	GCATATGATG	540
TGAATGGCTG TGATCAGATG .	AGTGACAGCT	TCCTTGAGCC	TAAACCGTCG	ATTGAATTCT	600
AGACTGCCTC GAG					613

- (2) INFORMATION FOR SEQ ID NO:271:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 763 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:271:

GAATTCGGCC	AAAGAGGCCT	AGTCTGGTTC	TTGCTTGATC	TGAGAGCTTC	CATCAGTCTC	60
TTTTATTTCT	TCTGTGGCTG	GAACTTCCAA	CTGGCTTGGT	TCAGCTGATT	CTTGTATCAC	120

GGGGCCTTCT	GACTCACTCT	GATCAACCAG	CTGGTTATTA	ATCACAAGTC	CTGGAAATGG	180
TCTAATGACC	${\tt GTGAATTTGA}$	TAAACTCGGC	AGAGTCTAAG	ATCCTTCTCA	TGGAGCTGAT	240
TTCCAGGTAG	CTGGGGGCTT	TGAAAGGACA	CCCCCGGGGG	CATGCCATCA	ACTACCACAC	300
AGCCAGGGTT	AATTGTGATT	TCCCTGTAGG	GAACTTTCAC	AGGAAAACCC	ATACCAATAG	360
CTTCACCAAA	TTTCCGACTA	AAGAGGTCAT	TCACTTGTTC	TCTTAGCTGT	CTAGCTTTTT	420
CAACTTTCGA	${\tt GAGTCTTTCA}$	TTATCATCAT	CTGGAATTGT	CACCTGAATG	ATGTTAAGGT	480
CTTCAACACC	TGATGCAGTA	GTATTAACAT	TGGGTGATGA	ATTTATTTT	CTGGGAGGGC	540
TCTTAGAGGA	GGTGCTCTCC	TTAATCGCCG	TCTCAAACAT	TTCGGGCTTT	TTAATGATGA	600
ACTTAATTTT	GGCTTTGTTT	CTGAGTATCT	TCTCCAGCCT	CGGAATGCCA	AAAGTCGATG	660
GTCTTCGGAA	TGGCACACCC	TCAGGTAAGC	CTTCCACATA	AAAGTCTTCC	GGGAAAGACT	720
CAAATAACGC	GAACGGCACC	TTCACAGCTT	GTTTAAGGCC	AAG		763

- (2) INFORMATION FOR SEQ ID NO:272:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 102 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:272:

GAATTCGGCC AAAGAGGCCT AATTAAGGAA ATACTTTGCA TAAATTAATC AGCCCCACAG 60 TATTTCCTTA ATAAGAATAA AATGAATTTA ACACTGATTC TG 102

- (2) INFORMATION FOR SEQ ID NO: 273:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 565 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:273:

GAATTCGGCC	AAANAGGCCT	ACNCCAGTCA	AGGAAAGTCA	AGTNGCAAGA	AGGAANTGTC	60
TAAAAGAGAT	GGCAAGGAGA	AAAAAGACAG	AGGAGTGACG	AGGTTTCAGG	AAAATGCCAG	120
TGAAGGGAAG	GCCCCTGCAG	AANACGTCTT	TAAGAAGCCC	CTGCCTCCTA	CTGTGAAGAA	180
GGAAGAGAGT	CCCCCTCCAC	CTAAAGTGGT	AAACCCACTG	ATCGGCCTCT	TGGGTGAATA	240
TGGAGGAGAC	AGTGACTATG	AGGAGGAAGA	AGAGGAGGAA	CAGACCCCTC	CCCCACAGCC	300
CCGCACAGCA	CAGCCCCAGA	AGCGAGAGGA	GCAAACCAAG	AAGGAGAATG	AAGAAGACAA	360
ACTCACTGAC	TGGAATAAAC	TGGCTTGTCT	GCTTTGCAGA	AGGCAGTTTC	CCAATAAAGA	420
AGTTCTGATC	AAACACCAGC	AGCTGTCAGA	CCTGCACAAG	CAAAACCTGG	AAATCCACCG	480
GAAGATAAAA	CAGTCTGAGC	AGGAGCTAGC	CTATCTGGAA	AGGAGAGAAC	GAGAGGGAAA	540
GTTTAAAGGA	ATAGGAAATC	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO: 274:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 188 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:274:

GAATTCGGCC	AAAGAGGCCT	ACTTAAATCA	AGGCCAAAAC	TAAGGATTTA	GGTAGAGTGT	60
ATTAGCCTTT	CAATACCTGC	TTATTAAACA	GTTGTTTTCA	TACTTTTCAA	AGGTGTGTAG	120
AAGTTTTGTA	AATAAATTTT	CTGATAGGAT	AAACTAGATT	CCCTATGATC	TCTTATTTAT	180
TTATCATT						188

- (2) INFORMATION FOR SEQ ID NO: 275:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 555 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:275:

GAATTCGGCC	AAAGAGGCCT	AGTCCGTGAT	GCGTACACAC	CTGTCGAGCA	CGAGCTCCTC	60
TAGGCGGTGC	AGGTCGCAGG	CCACGTACTC	CAGCGCCATG	TCGGTGATNC	GTGGGCACCA	120
CGAGAGGTCA	AGGNTGCGCA	$\tt GCTTGCGCAG$	GTTCTCGGCC	ACGAGCTCCA	CGCCGTCGTC	180
GGTGACCTTG	GAGCAGCCCG	AGAGGCTGAA	CGCGGTGAGG	TTGGGCAGGN	TGTGCACCAC	240
GTTGACCACG	CCGTGGTTGG	TGATCTCCCA	GCAGGAGAGC	AGGCGCAGCG	TGTGCGTGCT	300
GTGGCCCTGG	CGCGCCGTGA	AGTAGGCCAG	CGCCGTGTCC	GTCACGTGGT	AGGCCTGCAG	360
GCTCAGCTCC	GCCAGGTTGG	GCAGCAGCTG	CGAGATGGCC	GCGATGGCGT	CGTCGGCCAC	420
GTTGATGCAG	TCACTCACGC	TCAGCGAGGT	GATGCGCGCG	CTCAGGCTGG	ACCACAGCCC	480
GGCCTCGGTG	AAGTCGTTGC	AGCCCGACAG	CTCCAGACGC	ACCACGCCCT	GCATCTGTTC	540
AAGCATAACC	TCGAG					555

- (2) INFORMATION FOR SEQ ID NO:276:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 496 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:276:

GAATTCGGCC	AAAGAGGCCT	ACAGTGAATA	ATCAGAAGTC	AGTTTGGGAG	AAGTCAAAAT	60
GGACACAATC	TTCTTGTGGA	GTCTTCTATT	GCTGTTTTTT	${\tt GGAAGTCAAG}$	CCTCAAGATG	120
CTCAGCTCAA	AAAAATACCG	AATTTGCAGT	GGATCTTTAT	CAAGAGGTTT	CCTTATCTCA	180
TAAGGACAAC	TTTTATATTA	CACCCCTTGG	AATAACTTTG	GTTCTTGAGA	TGGTACAACT	240
GGGAGCCAAA	GGAAAAGCAC	AGCAGCAGAT	AAGACAAACT	TTAAAACAAC	AGGAAACCTC	300
AGCTGGGGAA	GAATTTTTTG	TACTGAAGTC	ATTTTTCTCT	GCCATCTCAG	AGAAAAAACA	360
AGAATTTACA	TTTAATCTTG	CCAATGCCCT	CTACCTTCAA	GAAGGATTCA	CTGTGAAAGA	420
ACAGTATCTC	CATGGCAACA	AGGAATTTTT	TCAGAGTGCT	ATAAAACTGG	TGGATTTTCA	480
AGATACAAGG	CTCGAG					496

- (2) INFORMATION FOR SEQ ID NO:277:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 491 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:277:

GAATTCGGCC	AAAGAGGCCT	ACACCCAGAG	ACTGTAATTT	GTGTAGTTTT	TCTTTTTTAA	60
CTTAAAGACA	ACTTTAAAAA	ATACTTACAT	TAATGTTTTT	TATATTCATA	GGTGGGTATA	120
TTCGCCTCAT	TCAAATGGCA	GTAGCCTTGG	CTCACATAAG	ACATGTTTCA	TGTGATCTGT	180
ATCCTGGCAT	ACCAGTTATA	TTTTGTGGGG	ACTTTAATAG	TACACCATCA	ACAGGAATGT	240
ATCATTTTGT	CATCAATGGC	AGCATTCCAG	AGGATCATGA	AGACTGGGCT	TCCAATGGGG	300
AGGAGGAAAG	ATGCAATATG	TCTCTTACAC	ATTTCTTCAA	GCTGAAAAGT	GCTTGTGGTG	360
AACCTGCTTA	CACAAATTAT	GTTGGTGGCT	TTCATGGATG	TCTAGATTAC	ATTTTCATTG	420
ACTTAAATGC	TTTAGAGGTT	GAACAGGTGA	TTCCATTACC	TAGTCATGAA	GAAGTTACCA	480
CTCCACTCGA	G					491

- (2) INFORMATION FOR SEQ ID NO:278:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 369 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:278:

GAATTCGGCC	AAAGAGGCCT	ACAGAGAACA	GATAAAAATA	AGCCTGTGGA	ATGACCACTT	60
TGTGGAATAC	GGCAGAACCG	TGTGTATGTT	TCGCACAGAG	AAGATTCGGA	AGCTCGTAGC	120
CATGGGCATC	CCTGAATCTT	TGCGAGGGAG	ACTCTGGCTT	CTCTTCTCAG	ATGCGGTGAC	180
GGATCTTGCC	TCACACCCTG	GTTACTACGG	GAATCTGGTG	GAGGAGTCCC	TGGGGAAATG	240
CTGCCTGGTA	ACCGAGGAGA	TAGAACGAGA	CCTGCACCGC	TCCCTGCCAG	AGCACCCCGC	300
CTTCCAGAAC	GAAACGGGAA	TTGCTGCTTT	GAGGAGAGTC	TTGACGGCCT	ATGCCCACCG	360
GAGCTCGAG						369

- (2) INFORMATION FOR SEQ ID NO:279:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 528 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:279:

GAATTCGGCC	AAAGAGGCCT	ACTCTCCCTT	TCCACTCCCT	GGTGTTCCCA	GGAGTGAGAT	60
GAGGGTGGAG	GGGCCCAGCA	CAGCACCTTC	AACCTCAGGA	TGAGAGAGGC	CCTTTCACAA	120
AACTCTAAGG	CAGGGGAACA	GGAAACAGAG	AAAGCCGGAG	AACCCCAGGA	GGGCCCCAAG	180
AGCGGATTCT	GGTGATTATT	AATGTGCTTG	CCCAATGAAG	AAAGAATACT	GGCACTCTCT	240
AGGTATGATG	AGAGCAGACA	GCAAACGTGG	GGCCTGTCTA	CAGTGATTCG	CTACCCCAAT	300
GTATGGTCAT	CCACGTTAGA	AGCAGCAGTG	AAAGGCGTGT	TGCTTTTCAT	TATTAACTTC	360
AAATCCCAGT	CCCTAAACCA	GCTCTTGACG	CCCCTCTGTC	AGGTGCTAAT	CCTGGAAACT	420
GGAGGCCACC	TGGTCTCCAC	TTTAGGTGAG	GAAAACCTGG	GAGAAGCCAT	CAGACTGCAC	480
CTGTGGCATG	AGATGCTTTG	AGACAGGTCA	AGAGGAGGAG	CTCTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:280:
 - (i) SEQUENCE CHARACTERISTICS:

37		Po	CT/US98/06956	
		(A) LENGTH: 323 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
	(i.i)	MOLECULE TYPE: CDNA		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:280:		
	AGTAAGTGAT AGGCCAGCCT CTCTGCTGTC CTCCATCCAC	AAAGAGGCCT ACAGTGTCGG AGTAGATTTG AAACTGGAGG AGATTTTAGA ATTAGTGCTC AGAGCTGAAA TATCCAGTCC TCATACCACT GTGATGACAG GAACTACCCT AATCTTTCT CCTCGGGCTG CCAGGCCAGC AGCAACACCC ACAGGTAATC TTGCTCTGCC CTCTGCCCTC TCTGTGCCCC GTTGCACCTG CATCCAACTC GAG	GTGAACTTAG GTCCTTTTCT TCCCCGCTGA	60 120 180 240 300 323
		TION FOR SEQ ID NO:281: SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii)	MOLECULE TYPE: cDNA		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:281:		
	CTTAATGAAT AGATTTCCAG CTCTGTGTGG TTTTGCCGCT	AAAGAGGCCT ACTCAGTCAG TACCATGCCA GTTACCTTTT TGGATTTTCC TCAATCTGTT ATTTGTAGGA GGTTTGTATG ATTTCTGCCT CAGAGGTAGT CTTTTTCACA TATGACACCT CCACAAGTCT TCTGCCTCC TAAAAAAAATG TCTAGACCTT AATTCTGAAC TTTCCACTCC TCCTTTGCA GCTGTGATTG GCCAATGTAA ACCACCGCCC CCTCGAG	GGGCCAGGGT GGGTGTGTTT CTAGAAGGTC	60 120 180 240 300 337
	(2) INFORMA	ATION FOR SEQ ID NO:282:		
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 194 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii)	MOLECULE TYPE: cDNA		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:282:		
		AAAGAGGCCT AGGCTCTTCC ACTTAATTTC ATACTTTCAG TCTTCTGAAA GCATGCCTCC TTCTGGCTTC AGGACTCCAT		60 120

(2) INFORMATION FOR SEQ ID NO:283:

AGCCAAAACT CGAG

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 296 base pairs

ATGATCTAAA AATAATGGAA AATTACCCGG TATCGTTAGA GCTACACCAA AATTGCATTG

(B) TYPE: nucleic acid (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

180

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:283:

GAATTCGGCC	AAAGAGGCCT	AAAATCATCA	TATTCATAGA	GATATTAAAA	GTGCAAATAT	60
CTTACTGGAT	${\tt GAAGCTTTTA}$	CTGCTAAAAT	ATCTGACTTT	GGCCTTGCAC	GGGCTTCTGA	120
GAAGTTTTGC	CCAGACAGTC	ATGACTAGCA	GAATTGTGGG	AACAACAGCT	TATATGGCAC	180
CAGAAGCTTT	GCGTGGAGAA	ATAACACCCA	AATCTGATAT	TTACAGCTTT	GGTGTGGTTT	240
TACTAGAAAT	AATAACTGGA	CTTCCAGCTG	TGGATGAACA	CCGTGAACCA	CTCGAG	296

- (2) INFORMATION FOR SEQ ID NO:284:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 456 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:284:

GAATTCGGCC	AAAGAGGCCT	AGCAACATCC	ACGCAGCTGC	TCATCAGGTA	CGAGTGCTTC	60
CATATCCATT	TACCCACCAT	TGGCAATTTG	AAAGGACCAT	CCAGACCCCC	ATAGGATCCA	120
CATGGAACAC	CCAGAGGGCT	TTCCAAAAGC	TGACTACTCC	CAAGGTCGTC	ACCAAGCCAG	180
GCCATATCAT	TAACCCCATA	AAAGCAGAAG	ACGTGGGCTA	CCGGTCTTCC	TCAAGGTCGG	240
ACCTGTCTGT	CATACAGAGG	AATCCAAAAC	GAATCACCAC	ACGTCACAAA	AAACAGCTGA	300
AGAAATGCTC	TGTAGATTGA	GTTGCTGGAG	GAGTGACAGC	CAGGAGCCCT	GACTTCACTT	360
CCTTTGGTCC	AGTTTTACTC	TGATACAGGG	TGGATTCCAA	AACTGGCTCA	GTACATTGCA	420
TGTAGTTAAG	CCACATTTTA	AAAATAAAGG	CTCGAG			456

- (2) INFORMATION FOR SEQ ID NO:285:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 150 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:285:

GAATTCGGCC	AAAGAGGCCT	AAGGTCGGCC	TGTTCATCTT	GATTAGCATC	CAGGCCTTGG	60
AATATTTCAT	CAATGACAGC	TTTATCTTTG	ATATTCTTGA	TGGTGTTTGC	AAGCTCCTTT	120
GTAAGCAGCT	GCTTCAGCTC	ACCCCTCGAG				150

- (2) INFORMATION FOR SEQ ID NO:286:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 115 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:286:

WO 98/45437

	PCT/US98/06956	
AATCCAAGCA ATAACCCAAG CAAAACTTCA GATGCACCTT ATGATTCTG TCTGAGCATA TTAGCTCTTC TGGGAAAAAG TACTACTACA ATTGTCGAA		60 119
(2) INFORMATION FOR SEQ ID NO:287:		
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:287:		
GGAAGAAGAT GCTAGGAGA GACTCAGATG AAGAAGAGGA AATGGATAC AGATAAATGC TGGTAGCCAA GATGATGAGA TGGGTTGCAC CTGGGGAAT CAGTAGAGGA TGATGCTGAA GAGAACCCTA TTGTCTTAGA GTTTCAGCA CCTTTTATAT AAAGGATCCC AAAAAGGGTC TCCAAGGCTT TTTTGACCG AATTAGAATA TGAATTTGAT GAACAGGGAC AACTCGAG	G GGAGAAGATG G GAAAGGGAGG	60 120 180 240 278
(2) INFORMATION FOR SEQ ID NO:288:		,
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:288:		
GGATTTCTGA GGCCAACTGC CCAATAGTTT CCAGTAGAAA CATGGCCAT ATTTAACCTT CTCATTTAAT CAATAGCACA ATCTAACCTA CACAAGAAT CATCCAGTAT AACATGTTTT TCATTTTTAC TTTCTTGCGG TCAATTTT TTTAAAATTT TTTCAAAATG ACAACTACTA TGGAATACTG AATACAAAG AACATTGATA ACAACAACAC CAGCAACAAT ACCACCAACCA CCACCACTG CACCTTCACA ATGGCTGTTG TACTTAGTTA CGAAGAAGAG TGGGGACAG CGAG	A AGCAATCAAA I TAATGATCTA I TCAGTAACAC A ATGGTCTGGG	60 120 180 240 300 360 364
(2) INFORMATION FOR SEQ ID NO:289:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 471 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:289:		
GACTOCATGO GTATGTCCCA COTAAAGGTC GGCTCTGCTG CCGACATCC	ሮ ሮኒሞሮኒኒር ርኒሞርኒ	60

120

180 240

300

360

TCAGAGACGG ATCTCAGCCT GCTGACGGCC ACTGTGGTCC CGCCCTCGGG CCGGGAGGAG

CCCTGTTTGC TGAAGCGGCT GCGTAATGGC CACGTGGGGA TTTCATTCGT GCCCAAGGAG ACGGGGGAGC ACCTGGTGCA TGTGAAGAAA AATGGCCAGC ACGTGGCCAG CAGCCCCATC

CCGGTGGTGA TCAGCCAGTC GGAAATTGGG GATGCCAGTC GTGTTCGGGT CTCTGGTCAG

GGCCTTCACG AAGGCCACAC CTTTGAGCCT GCAGAGTTTA TCATTGATAC CCGCGATGCA

GGCTATGGTG GGCTCAGCCT GTCCATTGAG GGCCCCAGCA AGGTGGACAT CAACACAGAG GACCTGGAGG ACGGGACGTG CAGGGTCACC TACTGCCCCA CAGAGCTCGA G (2) INFORMATION FOR SEQ ID NO:290:	420 471
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:290:	
GAATTCGGCC TTCATGGCCT AGATTGAGTC ACATTGTTCT CTTTGATCCA TTTTCTTTTA GACAACATCA CTCAAACAAC CCTATTACTC CAGTAGCAAT GAACTGTCTC TGGATTTTAT TAAGCATCTC ACT.GTTCCT TTTCTTCAGC TGTATGGCAC CCTGTCTTCC TGTACACCAG AGGCTCCTCA GCTGGGTAAG GTGAGCCAAC GTTACCAGGA GTATATGCTG AGAGGCCATT TCAAAGTCTT TCATAGAAGG CTGTGCTTGG GCAAACTCGA G	60 120 180 240 281
(2) INFORMATION FOR SEQ ID NO:291:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:291:	
GAAACTCTGC CCCTGAAGGT TTGTTTTCTA ATTCAGAGGT TTAAATTAAT CTAGCCCACT TAATAAAACC AGAGATCCTA TGGGAAATTT AGCCTAAGAC AGTGCTGGAA ATTGCCATAT GTTGATACAA AGAAGTGTTT GGCCACATTA CAGGTCTCAG ACTCAACTGC TATGTGTGAC TGCCGCTCTG TGCCTATGTC TTGCTTTTTT GCTGAGTTCC CTATTTCCAT ATCTCCAGGT GATCCTCGAG	60 120 180 240 250
(2) INFORMATION FOR SEQ ID NO:292:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:292:	
GAAATGTCAG AGGCACATAA GCTTTTACAA AAATTGTTGG TTCATTGTCA GAAACTGAAG AACACAGAAA TGGTGATCAG TGTCCTACTG TCCGTGGCAG AGCTGTACTG GCGATCTTCC TCCCCTACCA TCGCGCTGCC CATGCTCCTG CAGGCTCTGG CCCTCTCCAA GGAGTACCGG TTACAGTACT TGGCCTCTGA AACAGTGCTG AACTTGGCTT TTGCGCAGCT CATTCTTGGA ATCCCAGAAC AGGCCCAACT CGAG	60 120 180 240 264

(2) INFORMATION FOR SEQ ID NO:293:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:293:

GAATTCGGCC	CTTCATGGCC	TAGGTTTCTC	CGTGTTGGTC	AGGCTGGTCT	CGAACTCCTG	60
ACCTCAGGTG	ATCCACCTGC	CTCAGCCTCC	CAAAGTGCTG	GGATTACAGG	CATGAGCCAC	120
CATGTCCTGC	TATAAATAAC	TTTTAATAGG	CTCTTTTTCT	GGCTTTTTTT	TTTAGTAACT	180
CAGCCCATTT	TCTTCTTCTC	AATCTGGTCT	TTGTTAATGT	TGATAACGCT	GTCTTACTTT	240
TAAATTGCCG	TGATTAGAAA	TTACTAGAGA	TATATAAACC	TAGTCTTTTG	GGGGATTTTG	300
AAAGGGTCAT	AGTATTCTTA	CTGTCTTTCA	AAATGTACCT	TATATTTGAA	CATTGGAAGA	360
TACGTGTTGC	TGAATACAAG	TTAGTTTCAT	ACACACACAT	ACACATGACA	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:294:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 458 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:294:

GAATTCGGCC	TTCATGGCCT	ACTCCATTCC	CAGATAGAAA	GCTTGAATGA	AGAGTTGGTC	60
CAGCTGCTTC	TCATCCGAGA	TGAGCTGCAC	ACAGAGCAGG	ATGCCATGCT	GGTGGACATT	120
GAAGACTTGA	CCAGACATGC	TGAAAGTCAG	CAGAAGCACA	TGGCAGAGAA	AATGCCTGCA	180
AAGTGAAAAG	AAGCCATTCA	ACCAGAGAAC	AAGCTAGAAT	TTATTTTGCT	TCTGTGGTTG	240
TAAAAATGCT	GTTGCTAAAG	GTGGCGCAGA	AACAAATATC	AGTGTTAGTC	ATTGATAATG	300
TCTGAAGCTT	AATGTCCAGT	GATTGGCCTT	TGCTTCTTAA	TTTATTTTAA	TTTTTTACTT	360
GTGCCACTTA	ATATCAGGCA	TTTTAATAAA	ATATTGTTAC	AAAAAATGTA	CAGTACTGAC	420
ACCACCACAA	ATCATGGTTA	ATAAAAGAGA	GTCTCGAG			458

- (2) INFORMATION FOR SEQ ID NO:295:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 302 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:295:

GTGTAAAACC	AATGCCAGGA	AAACCAAATA	CACAAAACCC	TCCACGGAGA	GGTCCTCTGA	60
GCCAGAATGG	GTCTTTTGGC	CCATCCCCTG	TGAGTGGTGG	AGAATGCTCC	CCTCCATTGA	120
CAGTGGAGCC	ACCCGTGAGA	CCTCTCTCTG	CTACTCTCAA	TCGAAGAGAT	ATGCCTAGAA	180
GTGAATTTGG	ATCAGTGGAC	GGGCCTCTAC	CTCATCCTCG	ATGGTCAGCT	GAGGCATCTG	240
GGAAACCCTC	TCCTTCTGAT	CCAGGATCTG	GTACAGCTAC	CATGATGAAC	AGCAGTCTCG	300
AG						302

(2) INFORMATION FOR SEQ ID NO:296:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:296:

CATGGATCTG	CCTCCTGAGA	GGGATGGAGA	GAAGGGGAGG	AGCACAAAGC	CTGGCTTTGC	60
CATGCCAAAA	CTTGCACTTC	CCAAAATGAA	GGCTTCTAAG	${\tt AGTGGGGTCA}$	GCCTGCCACA	120
GAGAGACGTG	GATCCTTCCC	TTTCTAGTGC	CACAGCAGGG	GGTAGCTTTC	AAGACACAGA	180
AAAGGCCAGC	AGTGACGGTG	GTAGGGGAGG	ACTTGGTGCA	ACAGCAAGTG	CCACAGGAAG	240
TGAGGGTGTG	AACCTCCACC	GGCCACAGGT	CCACATTCCC	${\tt AGTTTGGGCT}$	TTGCCAAACC	300
TGATCTCAGA	TCCTCCAAGG	CCAAGGTGGA	GGTGAGCCAG	CCTGAAGCTG	ACCTGCCTCT	360
TCCCAAACAT	GATCTGTCTA	CCGAAGGTGA	CAGCAGAGGA	TGTGGGCTCG	AG .	412

- (2) INFORMATION FOR SEQ ID NO:297:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:297:

GTGCTGGTGG	CGCGGGGAGT	GCGCGTCAAG	GTGAACGAGG	CCTACCGGTT	CCGCGTGGCA	60
CTGCCTGCGT	ACCCAGCGTC	GCTCACCGAC	GTCTCCCTGG	CGCTGAGCGA	GCTGCGCCCC	120
AACGACTCAG	GTATCTATCG	CTGTGAGGTC	CAGCACGGCA	TCGATGACAG	CAGCGACGCT	180
GTGGAGGTCA	AGGTCAAAGG	GGTCGTCTTT	CTCTACCGAG	AGGGCTCTGC	CCGCTATGCT	240
TTCTCCTTTT	CTGGGGCCCA	GGAGGCCTGT	GCCCGCATTG	GAGCCCACAT	CGCCACCCCA	300
ATCTCGAG						308

- (2) INFORMATION FOR SEQ ID NO:298:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 269 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:298:

GAATAAGTAA	ATTCATGGAA	AGGAAGAAAT	TAAAAGAAAG	TGAGGAAAAG	GAAGTGCTTC	60
TGAAAACAAA	CCTTTCTGGA	CGGCAGAGCC	CAAGTTTCAA	GCTTTCCCTG	TCCAGTGGAA	120
CGAAGACTAA	CCTCACCAGC	CAGTCATCTA	CAACAAATCT	GCCTGGTTCT	CCGGGATCAC	180
CTGGATCCCC	AGGATCTCCA	GGCTCTCCTG	GATCCGTACC	TAAAAATACA	TCTCAGACGG	240
CAGCTATTAC	TACAAAGGGA	GGTCTCGAG				269

- (2) INFORMATION FOR SEQ ID NO:299:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 458 base pairs

(0	B) TYPE: nucleic acid C) STRANDEDNESS: double D) TOPOLOGY: linear	
(ii) MOLE	ECULE TYPE: cDNA	
(xi) SEQU	UENCE DESCRIPTION: SEQ ID NO:299:	
TAAAATCTAT TTCAG ATTATAGGAC AAGT/ TATAACATCT ATAAC TGGTGTTTCT GGCGG GCATTGTAAG AGTTC CCACACCTGT GAGGG AATACATTTG AGTT	ATAGTT AAGCACAGGT CATTGTGGAC ATGAATTCAG GCCTCTGTAC GGGAAT GTTCTGTCTA GTGATTTGCT CACCATTTGA TATATAATGA ATAAGC TGATCTGCTA TAGCTGTCCA TCAGAGAGAA TACACGTGGC CAAAAC GACGATTCCT CTACAAGAGG CTGTTTCTCA CTGCTAACGT TGGGAA GAAATGCACA GGCGTGCATG GCATGCACGT TCAGACAGCT CTGTCA TGCAGTCTGA AAAGGGAAGA AACAGGATGG CTTTCTGTAG CGTGAT GATTGTTGTA TTATTAGATT ACTGATTTTT CTTTTCTGAA TTAATC ACATCTGTGG AACTCGAG FOR SEQ ID NO:300:	120 186 240 300 360
(A (B (C	ENCE CHARACTERISTICS: A) LENGTH: 99 base pairs TYPE: nucleic acid C) STRANDEDNESS: double D) TOPOLOGY: linear	
(ii) MOLE	ECULE TYPE: cDNA	
(xi) SEQU	UENCE DESCRIPTION: SEQ ID NO:300:	
	TGGGGT AGAGAAGTCA GGTAGCCCAG GGCCCGCACT CTCAATAGAC CATCGA GGTAAATGCC GCACTCGAG	60 99
(2) INFORMATION	FOR SEQ ID NO:301:	
(A (B (C	ENCE CHARACTERISTICS: A) LENGTH: 569 base pairs B) TYPE: nucleic acid C) STRANDEDNESS: double D) TOPOLOGY: linear	
(ii) MOLE	ECULE TYPE: cDNA	
(xi) SEQU	UENCE DESCRIPTION: SEQ ID NO:301:	
TGGTGGAAGA ATCTC TTGAGAAAGA ATGTC ATGGTCATGC CAGGA CAGTGTGTGA GGACT CTGAAAAGGA AGACX ACTCCAGCCA GGAAC CACTGAAAAA GAACC AATTTATTAA TGACX	ACTACT CAAGAGACCC TGGAAATAAT GAAAGAATCA GAAAAAAAAC GTAAAC AAAAACAAGT TTATATCTAA GACTCCAAGT AAGAAGAAA GAAGAGA ACCAGTTTGC GTCAGGAGAC ACAGAGGGGG ACATCTAACC AAAAACAAG GCCAAGTCTA ATTCCAAGCT AAAGTTGGTG CGTAGCCTGG TCCTCC ACCCCATTG CTGATGGGCC ATTAGAAACC CAGGATATAA AGTTGC CCTTCTGACA AGGAGGAAGA AAAGTCCACA AAAGATGTCT AAGGAC AAAAACAAAG AAAAGATCCC AAGGAAGATG CTGTCCAGAG TATACG GACTCCACTG GAATAGACCT ACATGAATTT CTTGTAAATA CCAAGG GACAGAATGA TGCTGCTAAA ATTAGAACAG GAGATTCTGGAACAAC CCACTCGAG	120 180 240 300 360 420
(i) SEQUE	ENCE CHARACTERISTICS:	
	A) LENGTH: 311 base pairs	

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:302:

GCGATTGAAT	TCTAGACCTG	CCACCCAAAC	CCCAACTCTC	AGACTTACCT	CCCAAACCAC	60
AGATGAAGGA	CCTGCCCCCC	AAACCACAGC	TGGGAGACCT	GCTAGCAAAA	TCCCAGACTG	120
GAGATGTCTC	ACCCAAGGCT	CAGCAACCCT	CTGAGGTCAC	ACTGAAGTCA	CACCCATTGG	180
ATCTATCCCC	AAATGTGCAG	TCCAGAGACG	CCATCCAAAA	GCAAGCATCT	GAAGACTCCA	240
ACGACCTCAC	GCCTACTCTG	CCAGAGACGC	CCGTACCACT	GCCCAGAAAA	ATCAATACGG	300
GGGCACTCGA	G					311

- (2) INFORMATION FOR SEQ ID NO:303:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 683 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:303:

ACAGCATGAA	GGCAGAAGCC	AATGCCCTGC	ATCACAAACA	CGACAAGAGG	AAGCGTCCGG	60
GGAAGAATGC	ACCCCCAGGA	GGTGATGAGC	CACTGGCAGA	GACAGAGAGT	GAAAGCGAGG	120
CAGAGCTGGC	TGGCTTCTCC	CCAGTGGTGG	ATGTGAAGAA	AACAGCATTG	GCCTTGGCCA	180
TTACAGACTC	AGAGCTGTCA	GATGAGGAGG	CTTCTATCTT	GGAGAGTGGT	GGCTTCTCCG	240
TATCCCGGGC	CACAACTCCG	CAGCTGACTG	ATGTCTCCGA	GGATTTGGAC	CAGCAGAGCC	300
TGCCAAGTGA	ACCAGAGGAG	ACCTAAGCCG	GGACCTAGGG	GAGGGAGAGG	AGGGAGAGCT	360
GGCCCCTCCC	CGAAGACCTA	CTAGGCCGTC	CTCAAGCTCT	GTCAAGGCAA	GCCCTGGACT	420
CGGAGGAAGA	GGAAGAGGAT	GTGGCAGCTA	AGGAAACCTT	GTTGCGGCTC	TCATCCCCCC	480
TCCACTTTGT	GAACACGCAC	TTCAATGGGG	CAGGGTCCCC	CCCAGATGGA	GTGAAATGCT	540
CCCCTGGAGG	ACCAGTGGAG	ACACTGAGCC	CCGAGACAGT	GAGTGGTGGC	CTCACTGCTC	600
TGCCCGGCAC	CCTGTCACCT	CCACTTTGCC	TTGTTGGAAG	TGACCCAGCC	CCCTCCCCTT	660
CCATTCTCCC	ACCTGATCTC	GAG				683

- (2) INFORMATION FOR SEQ ID NO:304:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 653 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:304:

GAATTCGGCC	AAAGAGGCCT	AGAGATGTCT	ACTCTCAGCT	CACGCCTGTA	ATCCCAGCAT	60
TGTGGGGAGG	${\tt TCAAGTTGGG}$	TGGATTGCTT	GAGCCCAGGA	GTTTGAGACC	AGCCTAAGCA	120
ATAGGCAAAA	CCCTGTCTCT	ACAAAAATCA	GCCAGGTATG	GTAGTGTGTA	CCTGTAGTCC	180
TAGCTACTCA	GGAGGCTGAG	GTGGGAGGAT	CGCTTGAGCC	TGGGAGGTGA	AGGCTGAAAT	240
TAGCCATGAT	CATGCCACTG	CACCCCAAGC	CTGGGCAACA	GAGCAAGACC	TTGTCTCAAA	300
AAAAAAAGGA	TGAGCTAGGT	TTGTATCTGT	AGACAGAGAT	TTATGATTAA	TTGGTAGGTG	360
AAAAAGTGTA	TTAAAGTACA	GTTATAGATT	AGAGTACAAA	ATGAATGAGT	ATATATGCGT	420

TTAAAAGTAT	GTATACATAT	CAGGAAAGGT	TACATGAGGA	TTTTCACTTT	CCACTTTATA	480
TCTCCCAGTA	TTTGAATTTT	TAATAACAAT	CTTTTTATCA	TAAAACTATA	TTAAATTAAA	540
CTTTTAGATT	TTTTAGTGGT	ATAAGTAGAA	CAGGAACCCT	AATACATTGT	TTTCTACTTT	600
TGTGATAAAG	ATAATTCATG	ATAGATGAAG	TTGCAAACCG	AAAGATCCTC	GAG	653

- (2) INFORMATION FOR SEQ ID NO:305:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 442 base pairs
 (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:305:

GAATTCGGCC	TTCATGGCCT	AAGGTATTCC	AAAATGTCTA	ATTTATTTA	TCCGATGGTA	60
AATGTAATAA	${\tt TTAAAGAAAG}$	AGGAAAGAAT	CATGAAAGGT	GGCCCTTAAA	GAGGGCTTCT	120
GGCAGAGTTA	GGTCAGAGGC	ACACTTTCTT	ACAGACTAAG	AGTTTTTAAG	TACTCAAGGT	180
GATGTTTATC	AGAAGCTTGG	ACTGCTTCTG	TGTCTTTTTA	TTGTGCTTAT	CTGGGAGGGA	240
GAGTTCTGTG	TCTGCTCCTA	TACATCTTTC	TGCAGCTGCA	GACATACTCC	CTGAGTCTGC	300
TTTTAGCTTT	CCTATCTTAG	TGCACCTGAA	GGGAAAGGAA	TGAGCTTATT	AAGGCCCACT	360
GTTTTACTGG	GGCCCATTGT	ATGAGAGTGA	AGTTTGGCAG	TTACCCAAGA	GACGTTCCCC	420
TCACCTCCCT	CCGGCGCTCG	AG				442

- (2) INFORMATION FOR SEQ ID NO:306:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:306:

GAATTCGGCC	TTCATGGCCT	ACCAATATGC	AAATCAGTAC	CTCTTCTCTT	AGAGGTGTTC	60
ATGCCCAAGC	TCCTCAGACA	AGTCCATCCC	ACTGTGTGGG	AGGAAGTTGA	AGGGTGAGGA	120
TTTTTAAGAT	TTTTATCTTG	CTTGAAGTTG	TGAAGACTCA	ATGACAAATG	GCTAGGTTTT	180
GAAGGGGTCT	TGGAAGTCAT	TACTGGGGAT	AGACCCCTCT	TGATACTTGT	CACATTAATA	240
TCTGCCCAGA	CTCTCACACA	TTCAGATGTT	TAACGTCACA	TGCATTAAGT.	TCTTTTGGTT	300
GCATGAGACA	GTGATGCACA	GAAACTCACT	TAGGAAAGGA	GATAGGTGGC	AATAAAGAAA	360
ACAGGGATTT	CATAGGAATG	CAGTAAAAAA	AAAACCATGG	CCTAATCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:307:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 239 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:307:

CTTGGCCCTT	GTTGCAGAAG	GGTTGAGGAG	CCGGGCTGGG	CCCTGCGCAC	CTCCCGGGGC	120
			AGCTGCTCCT			180
TTGGGGACCT	GGTGGGCGAG	GACGTCTTTG	GGGGCAGGGA	CTTTGGATGT	GTTCTCGAG	239
(2) INFORMA	ATION FOR SE	EO ID NO:308	3:			

- -
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 533 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:308:

GCGCACCATC CTG	GGAAGTG CATGTCTCAG	ACCAACTCCA	CCTTCACCTT	CACCACCTGT	60
CGCATCCTGC ATC	CTTCAGA TGAGCTCACT	CGGGTCACAC	CAAGCCTTAA	CTCAGCCCCA	120
ACTCCAGCTT GTG	GCAGCAC CAGCCACTTG	AAATCCACGC	CGGTGGCCAC	ACCATGCACT	180
CCACGGAGAC TGA	GCCTGGC TGAGTCCTTC	ACTAACACCC	GTGAGTCCAC	GACCACCATG	240
AGCACATCCC TGG	GGCTCGT GTGGCTGTTG	AAGGAGCGGG	GCATTTCTGC	TGCCGTGTAC	300
GACCCCCAGA GCT	GGGACAG GGCCGGCCGG	GGCTCCCTCC	TGCACTCCTA	CACGCCCAAG	360
ATGGCTGTGA TCC	CCTCTAC TCCGCCGAAC	TCGCCTATGC	AGACACCCAC	ATCCTCCCCA	420
CCCTCCTTTG AGT	TCAAGTG CACGAGCCCT	CCCTACGACA	ATTTCCTGGC	TTCCAAGCCA	480
GCCAGCTCCA TCC	TGAGGGA AGTGAGAGAA	AAGAACGTCC	GCAGGACCTC	GAG	533

- (2) INFORMATION FOR SEQ ID NO:309:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309:

GAATTCGGCC	AAAGAGGCCT	ACCCTAAAAC	ATTTATTTCA	AGGAGAAAAG	AAAAAGGGGG	60
GGCGCAAAAA	TGGCTGGGGC	AATTATAGAA	AACATGAGCA	CCAAGAAGCT	GTGCATTGTT	120
${\tt GGTGGGATTC}$	TGCTCGTGTT	CCAAATCATC	GCCTTTCTGG	TGGGAGGCTT	GATTGCTCCA	180
GGGCCCACAA	CGGCAGTGTC	CTACATGTCG	GTGAAATGTG	TGGATGCCCG	TAAGAACCAT	240
CACAAGACAA	AATGGTTCGT	GCCTTGGGGA	CCCAATCATT	GTGGCAAGAT	CCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:310:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 248 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310:

GAATTCGGCC	AAAGAGGCCT	AGGGTTTAAG	AGCTGTGGAG	GACTGAAAAC	TGGATAAAAA	60
GGGGGTCCTT	TTCCTTGCCC	CTGTCTCTCA	CTCAGATGCG	CTTCTTTTTC	GCCACTGTTT	120
GGCAAAGTTT	TCTGTTAAGC	CCCCAGTTCT	CCAGGTGCGT	TACTATTTCT	GGGATCATGG	180

GGTCAGTTTT AGGACACTTG AACACTTCTT TTCCCCCCTC CCCAGTTCTC CAGGTGCGTT ACCTCGAG	240 248
(2) INFORMATION FOR SEQ ID NO:311:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 343 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:311:	
GAATTCGGCC AAAGAGGCCT AGGTAAATAA CTAATATTGA TGTATTTTA TATTTAATA TAGACTAGTA AACTATGCAG AGTTAAGTGT TACATTAGAA TCTTGAACTC TCCTAACATT TCTCTTCCTC AGTTTCCTAT TGTTTTGGTA GAGTATGTAG ACATTTGCGA GATTAATTTAA GAGTTGGTAG ATACATTCTG GATTTCATTT TACTTTAGAT AGCAGGTTTG GCACTTTAAA TATATTTAAT TCAGTAAGAG AATAACTGAG TATGAGCTGT ATCCTCATCT TACTGTTGAA GACATCCCAA ATAGTTGGGT GTGCACTGTG GCGGGATCTC GAG	60 120 180 240 300 343
(2) INFORMATION FOR SEQ ID NO:312:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:312:	
GAATTCGGCC AAAGAGGCCT ACGGGAGGC GCGCCCGCGC TGAGTCGGCG GCGGGTAGCC ACTCCATGCC CTTGTCCGAT GGTTTGCAAC TCCGATTTTG CACACCGCTC CACCGTGCCC CCCAGCGCAC ACCCATTCAC ACTCACGCCA ACACTCTCGC TGAACACTTT TATAATTGTT AGGCGTGGCC GTTGGGACT TGGGCCCAGC GCGCTGATA CTGCGTCTGG AGGATTGATA TTTACTTTTG CATTGCGGTT ACCTCGAG	60 120 180 240 268
(2) INFORMATION FOR SEQ ID NO:313:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:313:	
GTCTCTCGCC GCCGGAGGAA GATGANGCTG AAGATTGGAT TCATCTTACG CAGTTTGCTG GTGGTGGGAA GCTTCCTGGG GCTAGTGGTC CTCTGGTCTT CCCTGACCCC GCGGCCGGAC GACCCAAGCC CGCTGAGCAG GATGAGGGAA GACAAGAGATG TCAATGACCC CATGCCCAA CGAGGCGGCA ATGGACTAGC TCCTGGGGAG GACAGATTCA AACCTGTGGT ACCATGGCCT CATGTTGAAG GAGTAGAAGT GGACTTAGAG TCTATTAGAA GAATAAACAA GGCCAAAAAT GAACAAGAGC ACCATGCTGG AGGAGATTCC CAGAAAGATA TCATTACTTCT CGAG	60 120 180 240 300 354

- (2) INFORMATION FOR SEQ ID NO:314:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 514 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:314:

GAATTCGGCC	AAAGAGGCCT	AGTGCAAGAA	CATGAAGCAC	CTGTGGTTTT	TCCTCCTGCT	60
GGTGGCAGCT	CCCAGATGTG	TCCTGTCCCA	GGTGCACCTG	CAGGAATCGG	GCCCGGGACT	120
GTTGAAACCT	TCGGACACCC	TGTCCCTCAC	CTGCTTTGTC	TCGGGTTACT	CCCTCAGTAG	180
TGTTCACTAT	TGGGGCTGGA	TCCGCCAGTC	CCCAGGGAAA	GGACTGGAGT	GGATTGGGAA	240
CATCCATCAC	AATGGTAGAA	CCAATTACAA	CCCGTCCCTC	GCCAGCCGCG	GTTCCATCTC	300
AGCCGACACG	TCCAAGAACT	CCCTCTCCCT	GAATCTGACC	TCTGTGACCG	CCGCAGACTC	360
GGCCGTCTAT	TTCTGTGCGA	GCGGCCCTAT	TGCCTCCTTT	GAATCGACGA	CTCTAAAGGT	420
GGGCGGAGAC	TTTCACTCCT	GGGGCCAGGG	AATCCTGGTC	ACCGTCTCCT	CAGCATCCCC	480
GACCAGCCCC	AAGGTCTTCC	CGCACAGCCT	CGAG			514

- (2) INFORMATION FOR SEQ ID NO:315:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 215 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:315:

GAATTCGGCC	AAAGAGGCCT	AGGACACTAG	AATTATTAGT	GTTCATTTTC	ATCTAAGATC	60
TTTATTCTCT	AACGTTCTTG	GTCCTATTGA	AACATTGCAG	TATGCAAAAC	TACTGCAATG	120
TTAAACCCAA	GAGAAAAGCC	ATTATCATGT	GTATGCTGGT	CATCATGATC	AGTGTGGTAC	180
AATTTTTAAA	AATAAACTAT	CATGCCCTTC	TCGAG			215

- (2) INFORMATION FOR SEQ ID NO:316:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 788 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:316:

GAATTATGTA	CGCCCTCTTC	CTCCTGGCCA	GCCTCCTGGG	CGCGGCTCTA	GCCGGCCCGG	60
TCCTTGGACT	GAAAGAATGC	ACCAGGGGCT	CGGCAGTGTG	GTGCCAGAAT	GTGAAGACGG	120
CGTCCGACTG	CGGGGCAGTG	AAGCACTGCC	TGCAGACCGT	TTGGAACAAG	CCAACAGTGA	180
AATCCCTTCC	CTGCGACATA	TGCAAAGACG	TTGTCACCGC	AGCTGGTGAT	ATGCTGAAGG	240
ACAATGCCAC	TGAGGAGGAG	ATCCTTGTTT	ACTTGGAGAA	GACCTGTGAC	TGGCTTCCGA	300
AACCGAACAT	GTCTGCTTCA	TGCAAGGAGA	TAGTGGACTC	CTACCTCCCT	GTCATCCTGG	360
ACATCATTAA	AGGAGAAATG	AGCCGTCCTG	GGGAGGTGTG	CTCTGCTCTC	AACCTCTGCG	420
${\tt AGTCTCTCCA}$	GAAGCACCTA	GCAGAGCTGA	ATCACCAGAA	GCAGCTGGAG	TCCAATAAGA	480

7	PCT/US98/06956	
	TCCCAGAGCT GGACATGACT GAGGTGGTGG CCCCCTTCAT GGCCAACATC CCTCTCCTCC TCTACCCTCA GGACGCCCC CGCAGCAAGC CCCAGCCAAA GGATAATGGG GACGTTTGCC AGGACTGCAT TCAGATGGTG ACTGACATCC AGACTGCTGT ACGGACCAAC TCCACCTTTG TCCAGGCCTT GGTGGAACAT GTCAAGGAGG AGTGTGACCG CCTGGGCCCT GGCATGGCCG ACATATGCAA GAACTATATC AGCCAGTATT CTGAAATTGC TATCCAGATG ATGATGCACA TGCTCGAG	540 600 660 720 780 788
	(2) INFORMATION FOR SEQ ID NO:317:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 214 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:317:	
	GAATTCGGCC AAAGAGGCCT AAATCATCCT GATGATGGTT TTCTTACATA AACATGAGCT TCTGACCATG TACCATGGAT GGGTTCTCAC TTCCTGCTAT ATCCTGATCA TCACTATTGC AAATATTGCA AATTTGGCCA GTACTGCTAC TGCAATCACA ATCCAAAGGG ATTGGATTGT TGTTGTTGCA GGAGAAGACA GAAGCAAACT CGAG	60 120 180 214
	(2) INFORMATION FOR SEQ ID NO:318:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: CDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:318:	
	GTTGTCTTT TTCCCCTTTA TAGCTGCTG AGTGAATTT AGAAAGCCTA AGTCATACAT CACATTGCTT CATGGGCATC CCAGTACACT TTGGATTTTA TTTTACATCC TTACTGATCT GATTCTCATC TCTGTCTCTT CATGGTTCTC TGCCTTCTAG TTACACTGGT GACCTTTCAA AACCTTTACC ACATTGAGTT CATTCCTTAC TTTCTCTGCCT GGAGTGTTCT GCCCCATCTT TACGTGGCAC GCTCGAG	60 120 180 240 267
	(2) INFORMATION FOR SEQ ID NO:319:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:319;	
	GAAGCTTTCA GGCTATCTTC TAGTCAAGAT GAGTGATAAG CCAGACTTGT CGGAAGTGGA GAAGTTTGAC AGGTCAAAAC TGAAGAAAAC TAATACTGAA GAAAAAAAA ACTCTTCCCT CAAAGGAAAC TATCCAGCAA GAGAAAGAGT GTGTTCAAAC ATCATAAAAT GGGGATCGCC TCCCAACAGC AGATTTCGAC ATTACCTGAG AGTCTTGATT TTAGGCTTGT TTTTTGTAAA CCCATGTGTT CTCGAG	60 120 180 240 256

- (2) INFORMATION FOR SEQ ID NO:320:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 304 base pairs
 - (B) TYPE: nucleic acid

(D) TOPOLOGY: linear

- (C) STRANDEDNESS: double
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:320:

GCTGCGTGTG	ATGGAGACCA	AACCCGACAA	GGCAGTGTCC	ATCATTGAGT	GTGACATGAA	60
CGTGGACTTT	GATGCTCCCC	TGGGCTACAA	AGAACCCGAA	AGACAAGTCC	AGCATGAGGA	120
GTCGACAGAA	GGTGAAGCCG	ACCACAGTGG	CTATGCTGGA	GAGCTGGGCT	TCCGCGCTTT	180
CTCTGGATCT	GGCAATAGAC	TGGATGGAAA	GAAGAAAGGG	GTAGAGCCCA	GCCCCTCCCC	240
AATCAAGCCT	GGAGATATTA	AAAGAGGAAT	TCCCAATTAT	GAATTTAAAC	TTGGCGCGCT	300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:321:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 298 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:321:

GAATTCGGCC	AAAGAGGCCT	ACTCTTACAC	CTTCCGCTCC	GTGGGCACCT	TCAATATCAT	60
CGTCACGGCT	GAGAACGAGG	TGGGCTCCGC	CCAGGACAGC	ATCTTCGTCT	ATGTCCTGCA	120
GCTCATAGAG	GGGCTGCAGG	TGGTGGGCGG	TGGCCGCTAC	TTCCCCACCA	ACCACACGGT	180
ACAGCTGCAG	GCCGTGGTTA	GGGATGGCAC	CAACGTCTCC	TACAGCTGGA	CTGCCTGGAG	240
GGACAGGGGC	CCGGCCCTGG	CCGGCAGCGG	CAAAGGCTTC	TCGCTCACCG	TGCTCGAG	298

- (2) INFORMATION FOR SEQ ID NO:322:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:322:

GCGCCGTGTC	CTTTTGCGTT	GGTACCAGCG	GCGACATGAC	GGGGTACACT	CCGGATGAGA	60
AACTGCGGCT	GCAGCAGCTG	CGAGAGCTGA	GAAGGCGATG	GCTGAAGGAC	CAGGAGCTGA	120
GCCCTCGGGA	GCCGGTGCTG	CCCCCACAGA	AGATGGGGCC	TATGGAGAAA	TTCTGGAATA	180
AATTTTTGGA	GAATAAATCC	CCTTGGAGGA	AAATGGTCCA	TGGGGTATAC	AAAAAGAGTA	240
TCTTTGTTTT	CACTCATGTA	CTTGTACCTG	TCTGGATTAT	TCATTATTAC	ATGAAGTATC	300
ATGTTTCTGA	AAAACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:323:
 - (i) SEQUENCE CHARACTERISTICS:

PCT/US98/06956

- (A) LENGTH: 307 base pairs(B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:323:

GCAAAAATCT CAGGCCCCAG	AAAAGCCTCT	TGTCATCTCT	CAGATGGGTT	CCAAAAAGAA	60
GCCCAAAATT ATCCAGCAAA	ACAAAAAAGA	GACCTCGCCT	CAAGTGAAGG	GAGAGGAGAT	120
GCCGGCAGGA AAAGACCAGG	AGGCCAGCAG	GGGCTCTGTT	CCTTCAGGTT	CCAAGATGGA	180
CAGGAGGGCG CCAGTACCTC	GCACCAAGGC	CAGTGGAACA	GAGCACAATA	AGAAAGGAAC	240
CAAGGAAAGG ACAAATGGTG	ATATTGTTCC	AGAACGAGGG	GACATCGAGC	ATAAGAAGGA	300
ACTCGAG					307

- (2) INFORMATION FOR SEQ ID NO:324:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:324:

GCACTTCTGA	GAGGATGCTG	GGAATCTGCA	GGGGGAGACG	GAAATTCTTG	GCTGCCTCGT	60
TGAGTCTTCT	CTGCATCCCA	GCCATCACCT	GGATTTACCT	GTTTTCTGGG	AGCTTCGAAG	120
ATGGAAAGCC	CGTGTCTCTG	TCACCGCTGG	${\tt AGTCCCAGGC}$	ACACAGCCCC	AGGTACACGG	180
CCTCCAGCCA	GCGGGAGCGC	GAGAGCCTGG	AGGTGCGCAT	GCGCGAGGTG	GAGGAGGAGA	240
ACCGCGCCCT	CCGCAGGCAG	CTCAGCCTGG	CCCAGGGCCG	AGCCCCACCC	ATCCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:325:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:325:

GAATTCGGCC	TTCATGGCCT	ACTCCAAACT	CATGCCCTTG	ተተተተተተ Ath Calc	TGCCCTTGGA	60
		TCACAATTTC				120
GGTTTCCGCC	TCAGGTATGT	CTTCTTCCTT	AATTTCTTTG	CCGTCTTTGG	TGCTGTTGAC	180
CTCACCCTTT	CTGGGGTCTT	CCTATTGGTC	TCAGCTTCAG	GTTTGCAGCC	GCCCCTGGTT	240
TCCTGAACAT	TCCTTCTGTG	GGGTCTTCCC	CTCCTTCTCA	CCCACCCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:326:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 345 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:326:

GAATTCGGCC	TTCAGACTTG	AAGTGGAGAA	GGCTACGATT	TTTTTGATGT	CATTTTGTGT	60
AAGGGCGCAG	ACTGCTGCGA	ACAGAGTGGT	GATAGCGCCT	AAGCATAGTG	TTAGAGTTTG	120
GATTAGTGGG	CTATTTTCTG	CTAGGGGGTG	GAAGCGGATG	AGTAAGAAGA	TTCCTGCTAC	180
AACTATAGTG	CTTGAGTGGA	GTAGGGCTGA	GACTGGGGTG	GGGCCTTCTA	TGGCTGAGGG	240
GAGTCAGGGG	TGGAGACCTA	ATTGGGCTGA	TTTGCCTGCT	GCTGCTAGGA	GGAGGCCTAG	300
TAGTGGGGTG	AGGCTTGGAT	TAGCGTTTAG	AAGGGCAAAC	TCGAG		345

- (2) INFORMATION FOR SEQ ID NO:327:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 474 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:327:

GAATTCGGCC	TTCATGNCCT	ACCTTTCCGT	CCGTTCTTTC	ACGCCTTCCT	CCTCATTTTC	60
CTTCCTTCTA	TTTTCCCTTC	CCTCTTTCCG	CTTTCCTGCC	CCGTTTCCTT	CCTCCCTCCC	120
TTCCTCCTTC	CTTCCTTCCT	CTGCGTTCTT	CCTCTCTCCT	TTGTTCCTTC	CTCCTCCTCC	180
CCACTCCCTT	TTCCTCTCCT	CTTCCCACCC	CAGTCTCCTA	CTCCCCAGTC	CTCCCATCCC	240
CATGGAACAT	ACACCTGCTT	TGTCTGGGAG	CCACGTTATT	CCTGCCAGCC	AGACCCTGGC	300
CAGGAGGATC	AGGGTCACGG	TCAGCTTGGG	CCGAGAACCC	TTCACATGAG	ACAAGCTCCT	360
CTGCCAGGGT	TTCCTGTGGG	AAAGGCCCCA	CTTCCCGACC	CTCCTGGGCC	ACTGCATGGG	420
GTCCCCTCTT	CGGCTTCTTC	TCCCCTCTCC	ACCCGGCAGC	CCCCCCAGCT	CGAG	474

- (2) INFORMATION FOR SEQ ID NO:328:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 556 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:328:

GAATTCGGCC	AAAGAGGCCT	AATTTACTCC	CCAATATAAA	ACATTTTACC	TGCGATCTAT	60
GTGTACATAT	TGAATGATGT	GTAACAATAT	CATAATTTTT	ATGTTCTGCA	TTTTTTCACT	120
TATATATCTT	TATTTAAATG	GACTTAACTT	TACTAATGGA	GTAATTTTTA	GCTTTCAGAA	180
GGAGTTCTCA	CTCGAAGATA	AAGAACAGCT	CGCTAACCAC	GAAAGAGGAA	TCGATGCTCA	240
GCTTTTAGTT	GCACTTCCTA	AAGTTGCAGA	ATTAAGACAA	ATCTTTGAAC	CAAAGAAGAA	300
AGAATTCTTA	GAAATGAAAA	GAAAAGAAAG	AATTGCCAGG	CGCCTGGAAG	GGATTGAAAA	360
TGACACTCAG	CCCATCCTCT	TGCAGAGCTG	CACAGGATTG	GTGACTCACC	GCCTGCTGGA	420
GGAAGACACC	CCTCGATACA	TGAGAGCCAG	CGACCCTGCC	AGCCCCCACA	TCGGCCGATC	480
AAATGAAGAG	GAGGAAACTT	CTGATTCTTC	TCTAGAAAAG	CAAACTCGAT	CCAAATACTG	540
CACAGAAACC	CTCGAG					556

- (2) INFORMATION FOR SEQ ID NO:329:
 - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 385 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:329:

GAATTCGGCC	AAAGAGGCCT	ACAAAACCAT	CCATAAATAA	ACAAAGCTAA	GAAAGCTAAG	60
AAACAAAGCT	AAGAAACAAA	GACTGAGGTG	AGGGAGATTT	GAGTATTTT	TTTTCCTCTA	120
CCAACAAGTG	AAGAATTGAA	CACCTTAATC	CATCTGATCT	CCCAGGTGGA	AGCCACAAAT	180
CTTTTTTTTT	GTTTTGCTCA	GCATATTGGC	ACAGTGAGAA	ATTCATTTTA	TACTCTCTGG	240
CATCTCTCTT	GTAAACTCAC	CAAGTCTCAA	TAAGTTCACA	AAGAAGGCAG	AGACAAATAA	300
CCCTAGAATG	CAGGTGATTG	TTTATTTATG	TATTTTCCTT	GTTACATACC	CACCTATACC	360
CAAGGCCTTT	GCAGAAAAGC	TCGAG				385

- (2) INFORMATION FOR SEQ ID NO:330:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 696 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:330:

GAATTCGGCC	AAAGAGGCCT	AGGAAGCAGG	AGTTTATTTT	TATCCTTTTG	TAAGTATTAA	60
CTCGGTAATC	ACAACAAACA	CGGAGCAATC	TCAATGCTGT	TTATCCGGAG	GACAGTCTGC	120
GGGGTCGTGA	CGATTCTTTT	CTTCTTGAAG	TTTTTCCTTT	TCCTGAATCT	CATAATGATT	180
CTTGGCCATG	ATTCTGTCTT	TTCAATGACT	GTGGCTTCTA	CTCGAACAAG	ATCCTTTCCG	240
AGGAGTGGCT	TGCCAAGCAG	CGTGAAGTTG	TCTGCCCCAA	CCAGCAGGAC	CTTCTCCAGT	300
CGAATTCTCT	CTCCACACGC	AAGGTCTAGT	TCATTTCCAA	TTAAGATCAG	GTCTTCAGAG	360
GTCACCTTCC	ACTGGCGGCT	GGCAAAGTGC	ACCACGGCAA	AGAGCCTGCC	ATACTGCCCC	420
GTGACGATCA	TCTCATTCAC	TTTCTTCACG	ACCTCTGCAT	GGTGTCTGGT	CTCCTCAACT	480
GGGTCTGGCA	GAACAACTTC	TGGCCAAGGT	GGTGAACTCA	GGGATGTTTT	AGGAACATAT	540
CCTGGTAGAT	ATGAAGTGCT	CTGTGAATTG	AACCTTCGAG	AAGCAGACCA	AAGGGAGGCT	600
GCTCCGGGCC	CCGAAGGTCT	CAGGATGCTG	TGGCTGCACG	CGGACGCCAG	CCGCCCTAAG	660
GTGACCGTCA	GGGAAGATGC	TGCCATGGCC	GCCGCC			696

- (2) INFORMATION FOR SEQ ID NO:331:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:331:

GAATTCGGCC	AAAGAGGCCT	AATTTTTTGT	ACATCTGGGC	CCTTAGTTTT	TATTCTGTTT	60
ATTATATGTC	TCTGTCTCTC	TCTATTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	120
GTGTGTGTGT	GTGGTGCAGG	AGTGCCACCC	CCAGGGCCCT	GTCAACCTCT	CTTTTCTCCT	180
CCATGGCTGT	CTGCCTGCGT	ATCTGTCTCT	GAGAATCCTC	GGGGCGGTCA	GGGGATGTCA	240
GGAGGGGAAG	GAGCCGCCCT	CCCTATCTTG	CTGCTCCTCT	TGGCACTCAG	GGGCACCTTC	300
CATGGAGCCA	GACCGGGTGG	AGGGGCTTCT	GGGATTTGGT	GTCTGCTGCT	GCCAGAGCAG	360

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				•	C1, CD, 0, 00, CO	•
GAACCCCCAG	TACTCGAG					378
(2) INFORM	ATION FOR SE	Q ID NO:332	2:			
(i)	(B) TYPE: (C) STRAN	ARACTERISTI TH: 394 bas: nucleic a NDEDNESS: d LOGY: linea	e pairs cid ouble			
(ii)	MOLECULE TY	YPE: cDNA				
(xi)	SEQUENCE DE	ESCRIPTION:	SEQ ID NO:	332:		
GGCGGCAGAC GCAGTGCACA TCAGGCCTCT TCCAAAAGCC AGTGGACTCC	TTCATGGCCT AGAAGTGAAT CAGGTGACCT GCACTTTACT CTGGAATGGG TGTGTTGTTC TACGACACTC	CACCTAGTTT CCTTGTTGCA ATGATGAATT TTGGGCATAC CGGAAGGTGA	GACCCAAGAG GTTGGTTCAT TGCCAACCTG CATCTGTAAT CTTTCCATTT	AGAGCCAACC TCCTGCAGTG ATCCAACATG GATTTCCAGG	AGCAGTCTCC AAAAGCTGGA ATGCCTTCGT	60 120 180 240 300 360 394
(2) INFORMA	TION FOR SE	Q ID NO:333	i:			
(i)	(B) TYPE: (C) STRAN	ARACTERISTI TH: 547 base nucleic ac DEDNESS: do OGY: linear	≥ pairs cid ouble			
(ii)	MOLECULE TY	PE: cDNA				
(xi)	SEQUENCE DE	ESCRIPTION:	SEQ ID NO:	333:		
TGATGTTCTT TTGGGACACA GCATTTTCAT TTGCAGAACC ACTCTGCATT TCTGGGTTTA GGGGTGTACA	AAAGAGGCCT ATCAAGCTTT TAGCATGGATC AAAGAAAAAG TCGGTGACTAT CCCTTCTACAA CCCTGGAACGG CCGAGTCCAA CCCAGCAA CCCAGCAA CCCAGCAA CCCAGCAA CCCAGCAA CCCAGCAA CCCCAA CCCAGCAACGAA CCCCAGCAA CCCAGCAACGAA CCCAGCAACGAACG	TTCACCAGCC ACCAGTACAA CTTTTTCGTG TTTGCAGTTT CCTGTTCCTG CAGCATCAGC GCTCGGTGCA	TTGGGTCCTT TTGCTGTTAG GGGAGAGTAG TAGAGATACT GTCCTGAGTT AACCCTTACC TCCTTCGTTT	CATTGTAATT AGACTCTGCT TGAAGAATTG GAATAATTCT TGATCACGTC AGACATTCCT TTGTGACCAT	TGCTCTATTC TCAAATGGA AGTCACGGAC TCCCAAAAAA GCTGCTGAGC GGGGCCGACG GATACTGTTT	60 120 180 240 300 360 420 480 540
(2) INFORMA	TION FOR SEC	Q ID NO:334	:			
	SEQUENCE CHA (A) LENGT (B) TYPE: (C) STRAN		CS: e pairs cid ouble			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:334:

GAATTCGGCC TTCATGGCCT AGGGGAAATT GAGTCAAGAA AAGGTTCAAT ATTTTTTAAT 60 GGTAGAATTG ACCGTATGTG TATGTGCTTC TAGAAGTGAT TCAGGAGAGA GGGTGGAATG 120

GATGGTGTGG	GACGGAGGGA	AGAATTGGTG	GAATGATGTT	GGCAAAAAGG	AATAGGCTTT	180
TGTGCATAAG	TTGAGGGATT	GGCCTTGCCT	AGAAACATGG	ACAATTCGTC	TATAGTAAGA	240
AGAGAAAAGG	TAGATCTATG	ACCACAGACA	TAGTCAGATA	ATCATTTTAA	AATTCTTTAA	300
TCAATAGATG	TTTCTGATGT	ATGGCAGGCA	GTAAGCTAAG	CAGTTTACAT	ACCTGATTTC	360
ATTTAGTTAT	TATAACAATC	CCAGTCTAAA	ACTCGAG			397

- (2) INFORMATION FOR SEQ ID NO:335:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:335:

GAATTCGGCC	TTCATGGCCT	ACTCCATCCT	TAAGGTCACC	ATTGGTATGT	TCCTGCTCTC		60
TGGAGATCCC	TGCTTCAAGA	CGCCACCATC	GACTGCCAAG	TCCATCTCCA	TCCCAGGCCA	1	20
GGATTCCTCC	CTGCAGCTGA	CGTGTAAGGG	TGGTGGGACC	AGCAGTGGGG	GCAGCAGCAC	1	80
CAACTCCCTG	ACTGGGTCCC	GGCCCCCAA.	GGCTCGGCCC	ACTATTCTCA	GCTCAGGGCT	. 2	240
GCCAGAGGAA	CCCGACCAGA	ACCTGTCCAG	CCCTGAGGAG	GTGTTCCACT	CTGGCCACTC	3	00
CTCGCAACTC	GAG					3	113

- (2) INFORMATION FOR SEQ ID NO:336:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 467 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:336:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGGCCTCC	CAAAGTGCTG	60
GGATTACAGG	CTTGAGCCAC	CACACCTGGC	CTAGTGATTT	GTAATTTCAT	GAGCTGTTGC	120
TGTATTGCCT	TCCACAGACA	GTCAATTTAT	AATCCCTCAG	TATTATATAA	TCAGGAAGAT	180
TCAGTGAATG	GAATTTTGGG	TTGGTGGAGG	ACATATTTTT	TAATTGGTAG	ACCACTGAGT	240
GCTTTTGCAA	ATCTCCTTAA	ATCACATTAC	AGCAGGAACA	ACTATAGAAA	ATACAATTAT	300
TTAGGAGCAA	CCTGATCTGT	GAGCTAATTT	AATGAGTGGA	GCCCAGCCTA	CATGCTGAAG	360
AGCTCACATG	CCTCCTACCT	${\tt AGTTCCTTAA}$	CTAGGTTTTC	ACTCATGCCC	ATTTTGTCAT	420
ACTCTTGAAA	CCTTCCTATC	TTTGCATAGA	ACATTATTCT	TTCCACT		467

- (2) INFORMATION FOR SEQ ID NO:337:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:337:

	P	CT/US98/06956	
GCTCTAGCCT CCCTGACGTT CCTGCTGTGT CTCCCCGTGT CTCTGTGCCA GCGATGTGAG CAAATGCCTC ATTCAGGAGC GAAGGGAACT GCCCCTGCTG TAAGGAGTGC ATGCTGTGCC TGCTGCGACT GTGTCGGTAT GTGCAACCCT CGGAATTACA AAGAGCACCG TGGAGGAGCT GCACGAGCCC ATTCCGTCCG	TCTGCCAGTG TCGGGGCCCT GCGACACCCC	CCGGCCTGGA GTGGGACGAG	120 180 240 300 348
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	338:		
GAATTCGGCC TTCATGGCCT AGCCAGTCTT CAGTTATAAC CTCTCTCTCTT TTTTTTTTT TTTTTTTGCTA ATGTAAAAAC TGTCACTAGT CAGCTGGCTC TTTTTCCTAT TCCATCCGTT GTTCTCAATA ATGACCACAG AGCCTGAGTA GCATTACAGG TCACTCGAG	TGGGATTTAA GAAATCTATC	TGGGAAAAAT AGTACCTTTC	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:339:		•	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·		
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	339:		
GAATTCGGCC AAAGAGGCCT AGCCTTCTGC AAGATGCTTC CTGCTGGCCT TCAGCTCAGC TCAGGACTTA GATGAAGATG TTGGTAATAT CAGATGGAGG AGACTCTGAG CAGTTCATAG CCT	TCAGCCAAGA	AGACGTTCCC	60 120 180 183
(2) INFORMATION FOR SEQ ID NO:340:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	340:		
GAATTCGGCC TTCATGCCT AGTTTTAACT GAGTGCAACA TTTTTTCGTA ATTTACCATT CTGCTGAATC AATTTTAAT TCTAACATAA TTCAGAAGCA TTAAAAAAGA AGACTAAGGA TTCAGCTTGT ATTGCATTGT GCAGAAAGGA AAATAGTCTA	CCAGTTGGAA AGAGAAAGCT	GCTCTAAAAT ACATTTTTAT	60 120 180 240

- (2) INFORMATION FOR SEQ ID NO:341:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:341:

GAATTCGGCC	TTCATGGCCT	AGCCTTTCTA	GTCTTCCCTC	TTCTGTAGGA	ATANCATGTT	60
CCTCAAATGG	TCCTGAACTT	TTTCACCATT	TTGGTGAACC	CTTTTAAAGT	AAATTTACTC	120
AATGCTTTAA	AATTCATAGT	CTTAAAATAA	ATGTGAATTT	TGTTTCCAGG	TATTTATTCT	180
GGGGTACAAA	AACTTCCCAG	AATTTACAGT	AGGAAAGGAA	ACCCCTTTAT	GATGTGGCTT	240
ATTATTACAA	GCATTCAGAA	ATGATGCTGG	CTAAGTCAAA	TCATTCCTTG	AGACAGTGAT	300
TCCTAAATGT	AATGCCGCCT	TCCTGAACTC	TCACATATTC	TATATCATGG	TTATTTTAAA	360
TTTATATAAA	TTAGCCTTTT	GTAACCTTAG	TCTTGTTTTG	AGCAATCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:342:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 466 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:342:

GAATTCGGCC	TTCATGGCCT	AGGGATTATA	GGTGTGAGCC	ACCGCGCCCG	GCCAGGAATC	60
ATTTTTATCC	AGGTAAGGCA	TACAGAACCG	GAGGGTTCTT	GTCTAAGTTG	TACCATGAAT	120
GTGTGCTCAG	TGGCTACTTT	${\tt GAAATAGACT}$	TACTGTACAA	TCCCTGAGCA	GGAATGAAAA	180
TAAAAGCTGG	AAATCACGGG	TTGCTCTGGG	GTTTTCAGGA	AGGTGTCGTC	CGTCTGGGGT	240
GAGTGTCCTC	CTTTCTCANG	GGATTTCATG	TGGCATTATT	TTGTTTTCAT	CTGAGAGGCA	300
ACATAAGCTG	GGAGGGAAGG	GCTGCAAAGA	GGGGGCCAGG	ACAAATGTGT	ACCTGGGGGC	360
CCCCATTTTG	ACTCCACCCT	GAGCTGGGGC	TGGGCCACAG	GAGGGCAGAG	GGAACACTTT	420
$\tt GGGACGGGGA$	GGGAGCCCCT	GGACTGAAAG	AATGGGGTGA	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:343:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:343:

GAATTCGGCC	TTCATGGCCT	AGAATTTTGG	AGTCTTTATC	ATAGGTAACC	TGGACCACAG	60
TTACTATTTA	TTGACAATGT	GATTGAGTGT	ATGGAGGAAA	GCACAGTGGA	TGCTAGGCTT	120
TGTAAATATG	GGGATGTAGA	AAAGCAGATA	GTTCAGTGTC	TACCTTTTTC	TAGAACTACC	180
TTGAACCTTA	AATTTTAAGT	CATGTTCATT	GCTAGAAAAT	TAAATGTACT	TATTAAAACC	240
AATGAAAAAG	CACATTTCTG	AAATGAAGTT	AGAGATAATC	TCTGTGTCTT	ATAAAAAGAC	300
ATTAATAAAA	ATCTGGTAAG	GACTCGAG				328

- (2) INFORMATION FOR SEQ ID NO:344:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:344:

GAATTCGGCC	TTCATGGCCT	AGTGACCAGA	CATAAGAACT	CATTTTTAGT	TAAAGCATTT	60
TAAAAAAGTA	TACAAGGCAG	AGTTGCAAAC	AATCTCAGCC	TATGAAAAGG	ACAGCTGCAG	120
TCAATGTTCC	CACTAATATT	TTCCATCCGT	GTACTGAGTG	AATTTGTAAT	GTGCAACTCA	180
TGTCAAGAAA	ATAAACAGAT	GTGCACCACA	AGCGGAACAA	CAATGAAAGA	ACTTACATAG	240
ATTTTTATTA	AGATTGAACT	TTTGATGTTG	ATTCCACTGG	TAAGAGAGCA	CTGTAGGCAA	300
AGGTCTTGTA	TTTATAAAGT	TATCTCCTAT	TGAGGAAGAT	GAAGATGTCA	ATACTCCCCA	360
ACAGAATGCT	TTGAGCTCTT	TCTAGTAGAT	CTGTGCCAAC	TCTGAAACAC	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:345:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:345:

GAATTCGGCC	TTCATGGCCT	AGTAAATACA	AAATACAAAA	ATACTGGTGA	GAGAATGGGA	60
TGATGATTAT	ATTCCTGGTT	CAGTTTTTCT	TCCTGAGAAA	TTTGATAATA	CATCTTTTGA	120
TTTTTAATAA	GTGAAATAAC	TGGTGACTGT	GTTGTATGTG	TGTGTGTGTG	TTTTTTTTT	180
TTTTTTTAAA	TAGAAGTGTG	AAAAGAAACT	TCATCCACGG	AAACTTCAGG	ATAATTTTGA	240
AACAGGCAAG	TCATTTCCTA	TCTTTTTATA	ATCTCTGCCT	TGTGGGATTT	GGTTTGGTTT	300
ACCTAACTTT	GATTTTAGTG	GGAGTATGTG	AGCTGTGACT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:346:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 544 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:346:

GAATTCGGCC	TTCATGGCCT	AGCCTTCGGA	ACCCCACCAG	AGTCACAGCC	AGGAAGGGCA	60
GCGGGGCGCA	CCAGGCCGAA	GGCTCACGCC	ACAGGGAGGG	CAGCTAGGAC	ATGGGGGGAA	120
GCGCGTTAAA	CCAGGGAGTC	CTGGAAGGGG	ACGACGCCCC	CGGCCAGTCC	CTGTACGAGC	180
GGTTAAGTCA	GAGGATGCTG	GACATCTCGG	GGGACCGGGG	CGTGCTGAAG	GACGTCATCC	240
GAGAAGGAGC	TGGAGACCTA	GTGGCGCCTG	ATGCTTCGGT	GCTAGATGCT	TCGTCTTGGG	300
TAAACTCCTC	GACTCCCAAG	GCCCCAGCTC	CATCTTTACC	TCAGAGCCTC	CTGAACCTCC	360
TCCTCCAGCC	TCACCTTCCT	CCAGCCTCAC	CACTCCTCCC	TGGACCTGCA	GCTCCGCACC	420
CCCGGGGGCC	TCAGAACTAC	CCCTTCCAGG	GCCTCAGAAC	TACCCCTACG	GTTTCTCCTG	480

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CGTAACCTTC TGCCTACCTT CCTGAGAGTG GTTGGTGACA GCAGCCGGGG CTAGAAACCT CGAG	54 54
(2) INFORMATION FOR SEQ ID NO:347:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 570 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:347:	
GCCTTCATGG CCTACCCAGT GATTGTCACC ATGGCCAGCA AGAGGAAATC CACCACACA TGCATGATCC CAGTGAAGAC TGTGGTGTTG CAAGATGCCA GCATGGAGGC CCAGCCCGGT GAGACCTTGC CTGAAGGACC CCAGCAGGAT CTGCCCCCAG AAGCATCTGC TGCCAGCAGT GAGGCAGCAC AGAACCCCAG CAGTACTGAT GGCTCTACAC TGGCCAATGG GCATCGGAGC ACTTTAGATG GCTATTTATA TTCCTGTAAA TACTGCGATT TCAGATCCCA TGACATGACC CAATTTGTGG GACATATGAA CTCAGAGCAC ACAGACTTTA ATAAAGACCC AACCTTTGTA TGCAGTGGGT GCAGTTTTCT GGCAAAAACC CCTGAGGGGC TTTCCTTGCA CAATGCCACA TGTCACTCCG GGGAAGCCAG CTTTCTGTGG AACCTGGCCA AGCCAGACAA TCATGTGGTT GTGGAGCAGA GCATCCCTGA GAGCACCAGC ACTCCTGACC TAGCGGGTGA GCCCAGTGCT GAAGGGGCTG ATGGACAGGC AGAGCTCGAG (2) INFORMATION FOR SEQ ID NO:348: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	420 480
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:348:	
GAATTCGGCC TTCATGGCCT AGAAAAAGT TTTCAAAGGG AAGTAATCTT AAATCTGTAT ACTATTTCT ATGATGGAAA TTCTGTGAAG AAACAATAAC AAATTCTCCC TGACTCCTGT CTGTCCTAAT AGTAAGGTGG TCTTTCTTCT AATCTCCCCA TCCATCCACC CATCAGGAAG CAACAGGGTA CCTTGTGTA GTAACTGTAG ATTTCTGACT TCTTCTGCA CCTTCAGCTG GAGCACCTGT TGTAAGATGT GCTGCCGGAG GTTCTCCTGG GCAATCCCCA TCCGTCGAG	180
(2) INFORMATION FOR SEQ ID NO:349:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 424 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:349:	
GAATTCGCCC TTCATGGCCT AACAACCACC ACCACCTGGA CGCCCAGCAG CACAACCACC ATAGCCGGCC TCAGGGTCAC AGAAAGCAAA GGGCACTCAG AATCATGGCA CCTAAGTCTG	60 120

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CTGTGCCTCC TCCTGTGGTG GAGGAGAAGG AAAGGTAGCA GGGCGCCAAG CAGTGA TGACCAACAG AGTGTGGGGA GAAGGGATGT GTATTAGCCC CGGAGGACGT GATGTG CCGCTTGTGA GTCCTCCACA CTCGTTCCCC ATTGGCAAGA TACATGGAGA GCACCC GACCTTTAAA AGGCAAAGCC GCAAGGCAGA AGGAGGCTGG GTCCCTGAAT CACCGA CGAG	AGAC 300
(2) INFORMATION FOR SEQ ID NO:350:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 445 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:350:	
GAATTCGGCC TTCATGGCCT AATTAGATTA TTTTGAGCTT GGGAACACTT GTACATC CCCCGGGACA TAAATGTAGA AGTTCTGTAG AGCAGTATCT TCACATTGAG GGATGTC GCTTTGCAGA GTATAGATAG TTTAATGTAA TTTAGAGTTC TTCATTATCT TTCCTAG CAGATATCTG CCGATGATGA CTTCTAACCC ATTCAGAATC TTTCTATGGT ATATTGC GGGGTGTAAA ATCCTCCAGG ACCCTAAACA GATGGACAGT TGATGCATTT CAGGGTA TGTAGACAAC AATATATTTG ACCCCTGAAA CAATTCAGTA TGCTTGTCAT TTGTTAAA GAGTTATTTC AAACATAATT TTGAATAAAA AATAAATTTT AATAAATACA TGTTCCC TATGCATATA AAAGCAATCC TCGAG (2) INFORMATION FOR SEQ ID NO:351:	GAAG 120 GGAT 180 CCCT 240 AAGC 300
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:351:	
AATTCGGTTC ATGGCCTAAT TTTGGAACTA AGAGACAGAT TTTTTGTTTT TGTTTTT AATAGCTGTT AACTAGTCTC ATAAGGACAA AATACAGAAA GACAGTTCTT ACAGAGA AGAAGCAAAA AAAGGAACCA ATGGAAAATT TAAAACTGAA AAATAGAATA TCTGAAA AAAATTCACT AGATGACATA ACTGTTGAGG AAAGAGTATG TGAATTTGAA GAAAAGAG TAGAAATGTT CCATTGTAAA GAACAAAGAG AACTCGAG (2) INFORMATION FOR SEQ ID NO:352:	AAT 120 TAA 180
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 457 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:352:	
GAATTCGCCT TCATGGCCTA CAGATTATCT TACACTGAAC TGATCAAGTA CTTTGAA. GACTTCGAAA TTTATCTTGG TGTCCTTCAT ACTTGCTGCA CTGAGTCTTT CAACCAC	AAT 60 CTT 120

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TTACTTATAT AAAGTTCCAA CGCCCCATTT TCATTATATT ATGAAATATG GTGTTCACGT 24 GAAGCAAGTT ACTAATGTTT TTATTACAAA AACCTACCCT AACCATTATA CTTTGGTAAC 30 TGGCCTCTTT GCAGAGAATC ATGGGATTGT TGCAAATGAT ATGTTTGATC CTATTCGGAA 36 CAAATCTTTC TCCTTGGATC ACATGAATAT TTATGATTCC AAGTTTTGGG AAGAAGCGAC 426	TTACTTATAT GAAGCAAGTT TGGCCTCTTT CAAATCTTTC	AT AAAGTTCCAA CGCCCC FT ACTAATGTTT TTATTY FT GCAGAGAATC ATGGG FC TCCTTGGATC ACATG	ATTT TCATTATATT CAAA AACCTACCCT ITGT TGCAAATGAT ATAT TTATGATTCC	ATGAAATATG AACCATTATA ATGTTTGATC	GTGTTCACGT CTTTGGTAAC CTATTCGGAA	180 240 300 360 420 457
--	---	--	--	--	--	--

- (2) INFORMATION FOR SEQ ID NO:353:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 295 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:353:

GAATTCGGCC	TTATGGCCTA	GCAGGCGCCA	AGGTAACATG	AACAAACAGC	TGCTTGCTGC	60
CCCCAAGCTT	TAGTTTCTAG	TGGGCCTGGA	GCAATTGTGA	AGGACAACTC	CACCCAAGGC	120
CCAGTATTGA	AGAGGGGTAG	GGTGGGAGGA	TTGTACATAT	CGCGAACGCT	TGGCAAATCT	180
CTAGATTTTT	TTTCCTCCTA	GGAAATAATA	ATTTTTAAAA	AGGCTTGTAA	AAAATAATAA	240
AATGTTTCAT	GACAGCAGCA	GATGTAAAAC	TCCCAGTACT	CCGGGCGACC	TCGAG	295

- (2) INFORMATION FOR SEQ ID NO:354:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 414 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:354:

GCCTAGACAT	GATGGTGGCC	ACGTGCCAGG	GGACCACACC	CTATGTACAA	AGCAGGAGAA	60
TGATGCTCCC	AGCTGAGCTG	CAGGATGGGC	GCTGGGCTGA	CTGGAGGGGT	AGACGGGGTG	120
GGGTCTGACC	CCATTAGCCT	TTCCCCATCC	AACCTGGGCC	CCCATAAGCC	ATTCTCTGGC	180
CCTCTGCACA	AGACAGACTC	AGCAAATCTG	CGAGGTATGG	GGATTCTGCC	AACTCCCCAC	240
CTCGCCTCAC	CTTCCCTAGG	TCTGCGCGTT	AGGAGATTCT	GGAGCCAGAG	GGAGAGACCC	300
CAGAAACTCC	CCGGTCGGCG	ACCCAGCCCG	AGACGCCTGG	GGTCCCAAGG	GAAGCTGAAC	360
GCCCGCAGAA	TGGGGAAATG	GAGAGAGAAC	CTGAAAGAGC	CCCTGTAACT	CGAG	414

- (2) INFORMATION FOR SEQ ID NO:355:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:355:

GAATTCGGCC	ATCATGGCCT	ACTCCCGAGT	AGCTGGGACT	ACAGGCATGT	GCCACCACGC	60
CCAGCTAATT	TTTTGTATTT	TTTTTAGTAG	AGATGGGGTT	CCACCATGTT	AGCTAGGATG	120

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- (2) INFORMATION FOR SEQ ID NO:356:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:356:

GCGATTGA	AT TCTAGACCTG	CCTCGAGCTC	AAGAGCAGCC	CACCTGTTCA	GTATTCATAC	60
CCACATAT	CC ATAATAGAGC	TCTTCTCTTC	CCCCGGGTTC	CTCTGCCTCA	GCCTTTTCCT	120
CTTAGCAG	AT GCCATCTGCA	GGGCCACTTG	GCTGCCCGTA	GCAGTAACCG	CACAGTCTTC	180
CACATTTA	CT CCCTCAGCCT	CAGCTGCTCC	TGCAGCCCAG	GCACTGTCTC	TGTCTCTGCA	240
TTGCTCAA	GC CTCCACCATC	TCGGTTACAC	CCCACAGCCA	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:357:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 269 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:357:

GAATTCGGCC TTCATGGCCT	ACTGCCTTAG	CCTCCCAAAG	TGCTGGGATT	ACAGGCGTGA	60
GCCACCATGC CCAGCCCTAT	AGTAGTTCTT	CTTTTGCCCC	TTAATATCCT	CACCCACATG	120
TCCTGTACCC TGCCTGAACC	CTCCTCCTCT	TTTTGTTCTG	ATCTTTGAGC	TCCCTAGAGC	180
CCATAATTCT TTAGAGCAGG	TATGTCCCGA	GTCTGAAACA	TGCCCTTATT	TGTCCCAAGC	240
TCTGGACATT TCTCACCCCA	TCTCTCGAG				269

- (2) INFORMATION FOR SEQ ID NO:358:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 250 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:358:

GAATTCGGCC TTCATGGCCT	ACCAAGGAAG	CCTTTCTGTT	TTTGGCCCAA	GGAGCGTCAA	60
TAAGATCTTT GAAAATACTI					
TTTGTTTTAT TTTTTATTTT					180
AGTGCAGTGG TGTGGTCTCA	GCTCACTGCA	ACCTCTGCCT	CCCAGGCTCA	AGCCGCCCCC	240

CCACCTCGAG

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(2) INFOR	MATION FOR SEQ ID NO:359:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii	i) MOLECULE TYPE: cDNA	
(xi	i) SEQUENCE DESCRIPTION: SEQ ID NO:359:	
GAAAAGAAGA GTGAAAAAA ACTCATCGTT	C TTCATGGCCT AATGGAGAT TGGTGGGAGT AGGGAACACA AAAGGCATGG A TAGGTTGTAT TTTGGTCATA CTGACACCAA CATGCCTAAA GGATAGCCCT G CTAGCAGACA GTTGAACTGC GGCTGTGAAA CAGGAAGCCG TGAGGGCTAG T GTAGTCATTC GTAAAGAGTA AATACTTGGA GCTATTGTAG TAGATGGTAT A CACTCGAG	60 120 180 240 258
(2) INFORM	MATION FOR SEQ ID NO:360:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii	.) MOLECULE TYPE: cDNA	
(xi	.) SEQUENCE DESCRIPTION: SEQ ID NO:360:	
CCCTCGCTGG CTTTTCTCCT TTCACGTTGT	C TTCATGGCCT AGGAAGCCAC AGGTCGGCTC TGCATTAGCA GGAGCAGCCG C CCGGGGGCTC CTGGGGTTTG TCCAGCTTGA TGTCGATCAT CCCTTCTTTG C GGACATTCTC CATTCCGGGT AGAGCCGACG CCACACGTCG AAAAAGCTGC T AGCCAGTCTT CGCACTGGTC TCAATGAACA TGACGCTCAG TTCTTTGGCG C CCCCTCGAG	60 120 180 240 259
(2) INFORM	MATION FOR SEQ ID NO:361:	
	SEQUENCE CHARACTERISTICS: (A) LENGTH: 422 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:361:	
TAAAAAATAA AAGGCATTCA TGGGATAGAA TTGAAATATT	TTCATGGCCT AAAGATTAGC CTGGGTAACA TAGTGAGACC CTGTCTCTAT A TAATAAAAAT AACATTCACA TTGGTATTGT TCACTAAGGT ATTGGTTGTT A TTAAGGTATT GTTAAAACTT GTGTTAAGCA TGTTAAAGTC TCAGTAACTT A ATAAAATGTG ATAAAAAGCT GAAAGAAACC ACCACAAGGG AGAGTCCTTT C AGAGACATAA TGCTGTCTAA TAAAAAACGA CATCAAAGAA AAACTACACT	60 120 180 240 300
	CAGACTTAAT GTTGGCCAAC CATGCATCCT CCCTAGAAAT GCATTTGAAT	360
AG	AATCTTTTAT TTAGGAAATT TACATTTTTA CATTAGTGAG ATTGGCCTCG	420 422
	211	

- (2) INFORMATION FOR SEQ ID NO:362:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:362:

GAA'	TTCGGCC	TTCATGGCCT	AGTTATTCTT	CTAATAGCTC	AGCTACTTTT	CCTTAAAATA	60
TCT'	TTTTCTC	TGCAAAGCCT	TCATATAATT	GTTGTTATTA	TAACAGTGAT	GATGACTGCC	120
ACT	CATTACA	ACTGCTGTTG	TTAATCTTTG	TTGTTATTTT	AAACCATATG	TTATTTAAAC	180
CAT	AAACTGC	ATCATAAAAG	CAGTTTCTTT	CTAATCCATG	ATGACACCTG	CTAGCCAGGT	240
ATC	GTATCAA	TTCTTCACAG	GTCTATTGAA	TTCTAGACCT	GCCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:363:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 264 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:363:

AAAAATTTCA ACAAATCCTG	AAGTCTTTCT	GTGAAGTGAC	CAGTTCTGAA	CTTTGAAGAT	60
AAATAATTGC TGTAAATTCC	TTTTGATTTT	CTTTTTCCAG	GTTCATGGTC	CTTGGTAATT	120
TCATTCATGG AAAAAAATCT	TATTATAATA	ACAACAAAGA	TTTGTATATT	TTTGACTTTA	180
TATTTCCTGA GCTCTCCTGA	CTTTGTGAAA	AAGGGTGATG	AAAATGCATT	CCGAATCTGT	240
GAGGGCCCAA AACAGAGACT	CGAG				264

- (2) INFORMATION FOR SEQ ID NO:364:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:364:

GAATTCGGCC TTCATGGCCT	AGACCCTCAT	CAATAGATGG	AGACATACAG	AAATAGTCAA	60
ACCACATCTA CAAAATGCCA	GTATCAGGCG	GCGGCTTCGA	AGCCAAAGTG	ATGTTTGGAT	120
GTAAAGTGAA ATATTAGTTG	GCGGATGAAG	CAGATAGTGA	GGAAAGTTGA	GCCAATAATG	180
ACGTGAAGTC CGTGGAAGCC	TGTGGCTACA	AAAAATGTTG	AGCCGTAGAT	GCCGTCGGAA	240
ATGGTGAAGG GAGACTCGAG	•				260

- (2) INFORMATION FOR SEQ ID NO:365:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid

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(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:365:	
GCGCCTATCA CAAGCAGATC ATGGGTGGCT TCAAGGAGAC GAAGGAGGCT GAAGATGGCT TCCGCAAGGC CCAGAAGCCT TGGGCCAAGA AGATGAAGGA GCTGGAGGCA GCCAAGAAGG CCTACCATTT GGCTTGCAAA GAAGAAAAGC TGGCCATGAC ACGGGAGATC AACAGCAACA CGGAGCAATC GGTCACACCT GAGCAGCAAA AGAAGCTGCA GGACAAAGTG GACAAGTGCA AGCAGGATGT GCAGAAGACA CAGGAGAAGT ATGAGAAAGT GCTGGAAGAT GTGGGCAAGA CCACACCCCA GTACATGGAG AACAAACTCG AG	60 120 180 240 300 332
(2) INFORMATION FOR SEQ ID NO:366:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:366:	
GAATTAACAG AGTTTTCAGA ATTAGAATAC TCAGAAATGG GATCATCGTT CAGTGTCTCT CCAAAAGCAG AATCTGCCGT AATAGTAGCA AATCCTAGGG AAGAAATAAT CGTGAAAAAT AAAGATGAAG AAGAGAGTT AGTTAGTAAT AACATCCTTC ATAATCAACA AGAGTTACCT ACAGCTCTTA CTAAATTGGT TAAAGAGGGTT GAAGTTGTC CTTCAGAAAA AGCAAAAGAC AGTTTTAATG AAAAGAGAGT TGCAGTGGAA GCTCCTATGA GGGAGGAATA TGCAGACTTC AAACCATTTG AGCGAGTATG GGATCTCGAG	60 120 180 240 300 330
(2) INFORMATION FOR SEQ ID NO:367:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 200 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	,
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:367:	
GCGATTGAAT TCTAGACCTG CCTCGAGTAC GGAGCGAAAC TCTGTCTCAA AAAAAAAAAA	60 120 180 200

- (2) INFORMATION FOR SEQ ID NO:368:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 368 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:368:

GAATTC	GGCC	TTCATGGCCT	AGAGAAATGA	GGAAAAAGAA	GGAAGAATAT	TTAACTTTTA	60
GTCCTC	TTAC	AGTTGTAATA	TTTGTGGTCA	TCTGCTGTGT	TATGATGGTC	TTACTTTATT	120
TCTTCT	ACAA	ATGGTTGGTT	TATGTTATGA	TAGCAATTTT	CTGCATAGCA	TCAGCAATGA	180
GTCTGT.	ACAA	CTGTCTTGCT	GCACTAATTC	ATAAGATACC	ATATGGACAA	TGCACGATTG	240
				TTATTTTTCT			300
TAGCTG	TTGT	TTGGGCTGTG	TTTCGAAATG	AAGACAGGTG	GGCTTGGATT	TTACAGGATA	360
TTCTCG.	AG						368

- (2) INFORMATION FOR SEQ ID NO:369:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:369:

GAATTCGGCC	TTCATGGCCT	ACATTCGGAG	AAGTTGAAAG	AATTACACCC	AGAACACCCA	60
TGTCTACCAT	GTTACTACAT	TTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GCGTGTGCAA	120
TTTTAATTAC	AATGGTCGAG	GAAGCTCTTG	CTGAGAAGGT	GATGTTGAAT	AAAGACTCTA	180
AAGACCCTAA	AGAGTTGAGA	GAGAGCTGTG	TGGAGTTCTG	GGGCCCAGGC	ACAGCAAGTA	240
CAAAGATCCT	GAAGCAGGAG	CATTCTTGGT	GTGTTCAAGG	AAAGCAGGAC	AACCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:370:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 289 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:370:

GAATTCGGCC TTCATG	GCCT ACCGCCTTTC	CATTATGCAA	CTGTGGTGGC	TTTTCTTTTG	60
TTATACGACG ATTATT	TGTC AACCCCACTA	TCTTTGCACT	CAACCATGGG	CCCCCTGGGC	120
TCAGAGACCT CGTGAC	AGTC ATCTTCTCAT	CACCACATCT	GCAAATGTGT	GGGTGGATGG	180
GGCAGCAACA GTCCAC	CTCC TCCAAGAAGC	AGTCCCTGAT	TTTTCCTCCC	CAGACAAATC	240
TTCGTCTCTC TGTTCT	TGGA AACTCAAAGA	ACTAAGCACC	TCCCTCGAG		289

- (2) INFORMATION FOR SEQ ID NO:371:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 540 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:371:

AATTCGGCCT	TCATGGCCTA	CAAGCTCGAT	CATTATCCTT	CTGTGAGTTA	CCATCTGCCA	60
AGTTCATCCG	ACACCCTCTT	CAATTCTCCC	AAGTCGCTCT	TTCTGGGAAA	AGTTATAGAA	120
ACAGGGAAAA	TTGACCAAGA	GATTCACAAA	TACAACACCC	CAGGATTCAC	TGGTTGCCTC	180
TCCAGAGTCC	AGTTCAACCA	GATCGCCCCT	CTCAAGGCCG	CCTTGAGGCA	GACAAACGCC	240
TCGGCTCACG	TCCACATCCA	GGGCGAGCTG	GTGGAGTCCA	ACTGCGGGGC	CTCGCCGCTG	300
		CGCCACCGAC				360
AGTGCGGATT	TTCCATATAA	TCCAGGACAA	GGCCAAGCTA	TAAGAAATGG	AGTCAACAGA	420
		CGTCATTGCT				480
GTCTTCCTGA	TCCGGTACAT	GTTCCGCCAC	AAGGGCACCT	ACCATACCAA	CGTTCTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:372:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 527 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:372:

TCGACCCCTG	GCTAATGACA	AACTATGTGA	CCTTCATGGT	GGGGGAGATT	CTGCTCCTCA	60
TCCTGACCAT	CTGCTCCCTG	GCTGCCATCT	TTCCCCGGGC	CTTTCCTAAG	AAGCTTGTGG	120
CCTTCTCAAC	TTGGATTGAC	CGGACCCGCT	GGGCCAGGAA	CACCTGGGCC	ATGCTCGCCA	180
TCTTCATCCT	GGTGATGGCA	AATGTCGTGG	ACATGCTCAG	CTGTCTCCAG	TACTACACGG	240
GACCCAGCAA	TGCAACGGCA	GGGATGGAAA	CGGAGGGCAG	CTGCCTGGAG	AACCCCAAGT	300
ATTACAACTA	TGTGGCCGTG	CTGTCCCTCA	TCGCCACCAT	CATGCTGGTG	CAGGTCAGCC	360
		ATGCTGCTCG				420
		GATGAATACG				480
		ATGCAAGGAT				527

- (2) INFORMATION FOR SEQ ID NO:373:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 407 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:373:

GGCAAGAAAG GATGTCCGCA	CAGCTGGCTG	CTGCTGAGAG	CAGACAAAAG	AAGCTGGAAA	60
TGGAGAAGCT TCAGCTACAA	GCCCTTGAGC	AAGAGCACAA	GAAGCTGGCT	GCCCGCCTTG	120
AGGAAGAGCG TGGCAAGAAC	AAGCAGGTGG	TCCTGATGCT	GGTCAAAGAG	TGCAAGCAGC	180
TCTCAGGCÀA AGTCATAGAG	GAGGCCCAGA	AGCTCGAAGA	CGTAATGGCC	AAACTGGAAG	240
AGGAAAAGAA AAAGACGAAT					300
CAGAAATGGA AGCTCAGATG				CGGGAACAGC	360
TTCGTGCCAA GCTGAACCGG	GAAGAAGCAC	ACACCACAAA	CCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:374:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 322 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:374:

GAATTCGGCC	TTCATGGCCT	ACTCTGTTTT	CTCCCTGGAC	TTATGTGCTT	CGTCTGGAAT	60
GTTACATCTC	TTCCTCTCTT	TCTTTTTTT	TGGTCCCCAT	GTTGACTGTT	TTATTGGGGT	120
TTCTGGATAT	CTCGGGGCCA	CCTCACAGGA	AGCGGTTTGC	AATGAGATCA	TAAACATTGC	180
CGAAAAATCT	GTTCATTACT	GCAGCACTGT	TTCTCATCCC	CTTGACTTTC	ATCACAAGGT	240
		CATCTTTAAT	CATTTCTCAG	CAACCTCAAG	CCCAGCAGCG	300
AAGAGTCACC	CCCTATCTCG	AG				322

- (2) INFORMATION FOR SEQ ID NO:375:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 480 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:375:

GAATTCGGCC	AAAGAGGCCT	ACCTAAACCG	TCGATTGAAT	TCTAGACCTG	CCCCAAAACC	60
AACAAGGAGA	ACAAGCTCAG	TCTTCTGTGT	CTTAATTTTT	GGCTTTACTC	TTAGCCCTGC	120
CCCATTTCCT	AGGCTCTCCA	CAGTCCAGCC	GCTTTGAGCT	ACTTTTCCTT	CCCTGATATG	180
TGCAGCTCTC	TCACCTCTGA	GCCTCCGCAC	CTGCTGTTCC	ACAGCACTCT	CCGCATTGCC	240
TTCTCCCACT	GTGGCTCACT	GCTGAGCTGT	GTTCAGGCCC	TTTGGGAAAC	CCTCTCTTTC	300
ACTCCTTTTC	CCTGGTCTGG	CTTGGGAGCC	CATGCTTACC	CCTGTCAGGA	CACCTTGAAA	360
CCCAGCAGTG	AAAACATGAC	ACTTCCTTGT	CTGGCTGATT	TTCTTAGTGA	AGCGAGTAGG	420
AGTTTCCTTT	GTCAGGACTT	CAGCAAGCAA	AATTCAGGAG	AGGTCATAAA	ATGTCTCGAG	480

- (2) INFORMATION FOR SEQ ID NO:376:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 283 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:376:

GAATTCTAGA	CCTGCCTCGA	GTAACCAGAG	AGTCTTGTCA	ACATTAACAC	TAGCAGTATT	60
		ACTTCCTTTA				120
TCTTTTTGCG	TATTTGATGT	GTCTTTATGG	AAATCATAAA	ACTTCAGCCT	TCCTTGGATT	180
TTGTGGCTTC	ATGTTTCGGC	AAACAAATAT	CATCTGGGCT	GTCTTCTGTG	CAGGAAATGT	240
CATTGCACAA	AAGTTAACGG	AGGCTTGGGA	AACTGAGCTC	GAG		283

- (2) INFORMATION FOR SEQ ID NO:377:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: CDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:377:

GAATTCGGCC TTCATGGCCT	AAACAGCAAA	GAACAACTCA	TCACCGCTCA	CGTTCAGTAT	60
CTCCTCATCG CGGCAATGAT					120
AGAGGAGTTT AGATGAAATT	CATCCAACAA	GAAGGTCACG	TTCTCCAACC	AGACACCATG	180
ATGCCTCCCG AAGTCCAGTT	GATCATAGAA	CCAGAGATGT	GGATAGTCAG	TATTTATCAG	240
AACAAGACAG TGAGCTTCTT	ATGCTGCCCA	GAGCAAAACG	AGGACGAAGT	GCAGAATGCC	300
TACATACTAC CAGAATGTCT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:378:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:378:

GAATTCGGCC TTCATGGCCT	ACTGAAATTT	CAATAAAACC	AGCTTGAAAG	TTCCATTACT	60
AGAAAGATAA GAGTGGTCAG	AAAACATTTT	TTATTAACCT	ATTTCATCTA	GTAAGAGTAT	120
CTTAAATGTT TTTTCTCTTG	AGTACTGAAT	ACACATGCAG	GACAATGGAC	CTAAATACAG	180
TTAACTTTTG TTTTTCACTC	CTTTGCTTTT	GCATTGTCAA	TAGTCCGGTA	AGGTTTAGGT	240
TCTATCAGAA GTACTCAGAC	ATGCAGTGGG	CAATCGATAA	TTTCTACCTG	GGCCCTGGAT	300
GCTTGGACAA CTGCAGGGGC					352

- (2) INFORMATION FOR SEQ ID NO:379:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 271 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:379:

GAATTCGGCC	TTCATGGCCT	AGTCTGTGTG	TAGTGGAAAC	TCTATTGCCT	GCCCTGCACA	60
		CACTCTGGGA				120
GACTGAGTTT	TGTATCATTT	CAGTTCTGCT	CTTTACTGGT	TCCTATGTGG	ATGCTAATTA	180
TGCAAATGCA	TTTTCCACCT	CTTGCACTCC	TTTTTCTAAG	TCACCTCACT	TCTCATTTCC	240
TCATGTTTTT	CCNTTATCCT	CTTCTCTCGA	G			271

- (2) INFORMATION FOR SEQ ID NO:380:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 371 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:380:

GAATTCGGCC TTCATGGCCT AACGCGGCCA GGCGATTCGG TTGGTTCCCC TCTTTGACCT GGTACAAAGA ATTTTACGTG CCACATAGTA ACCTATTTGG AGTGCAAGTA CAATACAAAC AGAACTGCTC TCCATGGAGA GAGTAACTCT GTCCTTATTA AAAACTATGT TAATAAATCA TGCTTTGAAA GAACTCATGG AATGTATTAC AAGTTCACTT AAATGGACTG CTGCAGATCA GAAGTCTCGA G	AAAGATTTTG TCGTCAGAGT 120 ACTTAAGTGA GCTGCTGAAA 180 TCGGACCCCG AGGATCAGGA 240 AAATAGAAGA AGTGAGTGAA 300
--	--

- (2) INFORMATION FOR SEQ ID NO:381:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:381:

GCAGAGTTAA GCAAATTAAT TATA	GCTATC TTTAAGCTAT	AAATGTGTTA	ACATGTATAT	60
ATACCATTTA TTATGTTCTA CTTT				120
GGGGGAGGG GAACGTTCAT TAAT				180
TAACATATGG TCCCAATTTA TTAA	TACTTC TGTTAAATTT	GATGTCAGGT	CAACATTTTT	240
CAGAAATGTA TTTATTCTCA GAAA				277

- (2) INFORMATION FOR SEQ ID NO:382:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 290 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:382:

GAATTCGGCC T	CATGGCCT .	AGTTGTTACT	GGAGTTAAAG	AGAGAACTGA	GAAAGACAAA	60
GGAGTAGAAC G	TTTACTCAA	ATAAGTAATA	ACAGAAAACT	TTCCAAACCA	GAATATACAG	120
GTACAGGAAG G	TCAAGGGTC .	ACCAATCCGA	GTTAACTCAG	ACAAGAATAC	TCCAATTTAC	180
AAACTCATAA G	GTCAAAGA	CAAAGAGAGA	ATTTAGAAAA	CAGCAGGAGA	ATAGAAGCAA	240
ATAACATATA AG	GATAGATCC .	AATATGCTTG	GTAGCAGATT	TCTCAGCAGG		290

- (2) INFORMATION FOR SEQ ID NO:383:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 241 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:383:

GAGAGTGTGG AGAGGG	TACA TTTCCCTTGT	ATNCTATGTT	CTTCTTTCTA	GTGGGTCTCA	60
TGTAGAGATA GAGATA	ATTTT TTTGTTTTAG	G AGATTCCAAA	GTATATATTT	TTAGTGTAAG	120
AAATGTACCC TCTCC	ACACT CCATGATGTA	AATAGAACCA	GGAATAAATG	TGTCNTTGTG	180

ATAATCCCAT AGCAATTTAT GGTAAGAACA AGACCCCTTT CCCTCACCAC CGAGTCTCGA G	240 241
(2) INFORMATION FOR SEQ ID NO:384:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 299 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:384:	
GAATTCGGCC TTCATGGCCT AGAAACACAA TAAAGCCCCA CAACAGCAAA CTTTTTAAAC GACGAAAGAG AGCTCTAAAT AACAGCAAAA TGCTGCTCTT CTTGCTCCCA TTATGTTTAC TATTATTACTGTG CTCTAGTGAG AATAGCAAGG GGTCAAAGGA ATTTATAACA CTTCCTATAC CTTCAACTTA CCAAGTCCC TACCAAGTAA CAGTTTTCTG TCAGAGGAA AGTTCTGCCC TCCCTGCTCA AAGGTGTCCA TGCCAACTAG ACTTCCCCTG TAGCTACCTG GGTCTCGAG	60 120 180 240 299
(2) INFORMATION FOR SEQ ID NO:385:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 546 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:385:	
GAATTCGGCC TTCATGGCCT AGAAAGAGGT GGCAGAAGGA ATGGTAGGAA GGGGAGGATG TAAGCGATAT CATCAAGTCA GAATCATGAG TTCTTGGTGC CCGGATGTTA GAGGAGGGAA AAGGTGAAGA TGGCTGAAGC TGTACACTTT CATGATGGTG GAATGGAGGG GTCCCTTGGG AATTAGGGGT GTCTCTAGGA AGAACCAGCT TAGGGTACAT TGAGAAAGAG GAGCAGGCT AGGCAGGTCT AGAATTCAAT CGCAGATCAC AGCATCATG CTTGCTCACC AGACACACTC TCTAGTGCCA GCACTTCAAA TATTGCTAGA ATAGAAGAAA TGGAGAGACT TTTGAAGCAG GCTCATGCAG AAAAGACGCG GCTGCTCGAA TCCAGGGAAC GGGAAATGGA AGCCAAAAAA CGAGCCCTGG AAGAAGAAAA ACGACCCGG GAAATCCTG AAAAACGATT ACAGGGATAG CTCGAG	60 120 180 240 300 360 420 480 540
(2) INFORMATION FOR SEQ ID NO:386:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:386:	
GTTAGGATCA TACATCATAG GTGTATGTTT AACTGTTCAA GAAACTGCCA AACTGTTTCC CAAAGTGGTT GTATTGTTTT ACATTTCCAC GAGCAGTGTT TGAGAGCTCC AGTTCTTGCA CATCCTAGCC ACAAAAAGGT TCTGTTTTTT AAAGACAATT TTTTTTTTCT TTGAGAGTTT	60 120 180

	240 300 317
(2) INFORMATION FOR SEQ ID NO:387: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:387:	
GAATTCGGCC TTCATGGCCT AGGTCAGGTT AGTCAGCTAA TGGATAAGAG ACTTGAAATT ACTCTTTTGG GATTAGCAAA TAGAAGGGAA AAACATGATA AGGGCACAGA GCGGTGGGTC TGGGGGAAAA AGCAGAGGCA CAGTTTGAAA AAAATGTGTA AGAGACTGAC TAGGTAAGAT ATGGTCACAG TTCATAAGTC CTTTGAATTC TAGGATTAAA AAGGTGAACT CGAG	60 120 180 234
(2) INFORMATION FOR SEQ ID NO:388:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:388:	
GAATTCGGCC TTCATGGCCT ACTAGATAAG TGTCAATTCC ATCTGCTTCT GATTTCCCAC GTCACTGCCC TGGTCCACAC ACTGTGATCT TCTGCCCCCA TCTGAGTGCC GCATACTCAG CCTTGTCCCT GCATCAGACC CCGGCCCAGC ACAGTAACGA GAATGGGCTT CCTAAACACA AATCTGATTT GTTCCGCCTT CCACTTCCTA GTGGCTTCAT TCTCGTGCCC TCACTCAGGG CCCTCACACA TGCTGTTCCC TGCACCTCCG ACACCCTTCC CAGCGCCCCT CGAG	60 120 180 240 294
(2) INFORMATION FOR SEQ ID NO:389:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:389:	
GAATTCGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAAAA CTAAAAAGCA GTTTGTTGCA ACTGGTCATA AAAGTGATTA AATCTAAAGC TGGCATTAAT AAGGAAGCAA GGTAATAAAA CAAAAATATA AACAGCTTTG AGAAAGTACA CCTAATAACA AAATCTTGTA ACACAACAAA TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG (2) INFORMATION FOR SEQ ID NO:390:	60 120 180 215

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 477 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:390:

				CAAGTAATGA		60
CCTCAACCCC	CAGCATATAT	GCACAAGGAC	AAACAGTATA	CATACAATCT	CACCTGAGAG	120
ACGTCCTCAG	ACTTGTGTTG	AAACCTTATC	ATGCTGCATT	ATCTCCCTTA	CAACATCCTT	180
				AATATACAAT		240
				TTTATACTAT		300
TTTTATATTT	TATCTATCAT	TTTAAATATG	CTATGTAAAG	CATCTACAAA	ATTCCTCACC	360
ATTCCTATGG	GAAGTATCTG	CAGAACTCTA	CAAATCAATT	CATCTTTTGC	TTT CCCCTCCC	
CTTTTTCACC	GGACAGGGAC	THEFT	TOCCTONTON	TCATCTTCCC	TIACCCCTCC	420
CITITIONOG	GGACAGGGAC	1110110111	TCCCICMICI	TCATCTTCCC	CCTCGAG	477

- (2) INFORMATION FOR SEQ ID NO:391:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 247 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:391:

GAATTCGGCC TTC	ATGGCCT AGTTAGTCAG	AGTGAAATAT	TCAATAATGA	GTGGTGCAGC	60
CTTGGGACTT GAG	ATTGTTT TTGTCTTTT	TCTGGCATTA	TTTCTGCTTC	ATCGATATGG	120
AGACTTTAAG AAA	CAGCATA GACTTGTGAT	TATTGGAACA	CTGCTTGCTT	GGTATCTCTG	180
CTTTCTTATT GTC	TTCATAC TGCCTCTGGA	TGTTAGTACG	ACAATATACA	ACCGGTGCAA	240
GCTCGAG					247

- (2) INFORMATION FOR SEQ ID NO:392:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 366 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:392:

GAATTCGGCC	AAAGAGGCCT	AGTCATCTGC	ATTTATTATG	AGCAGCAGGT	GGGACACTTC	60
CAGCAACAGT	AAAAAAAAGT	AATTTACAAA	AGCAGGTTTC	AGTGAAGCCA	TCTGGTTGTT	120
ACCCTTGGGT	GCTCACACGT	AGATGCCAAC	CCAGAGCAGC	AGGAAGAGGA	CTCCAAAGCC	180
CATGAAGAGT	GAGGCCACTA	AGGAGATGAG	GAGCTCTTTA	TAGATATCAC	GAGTGTACTT	240
GGTAGAGGTG	ACCTCGTAAA	CGAAGAACCA	GGCGGTGAAG	AACATGCCAA	TGGCCAAAAG	300
CACCACGGTC	AGATGGGGGA	AGACAGCTGG	GTTCACTGGG	CTGGTATATC	TGCTCATGGC	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:393:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs(B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:393:

GAATTCGGCC	AAAGAGGCCT	ACCCTGGGTT	AACATTCAAG	ATGGTACATG	CTGAAGCCTT	60
TTCTCGTCCT	TTGAGTCGGA	ATGAAGTTGT	TGGTTTAATT	TTCCGTTTGA	CAATATTTGG	120
TGCAGTGACA	TACTTTACTA	TCAAATGGAT	GGTAGATGCA	ATTGATCCAA	CCAGAAAGCA	180
AAAAGTAGAA	GCTCAAAAAC	TCGAG				205

- (2) INFORMATION FOR SEQ ID NO:394:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 387 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:394:

GAATTCTAGA	CCTGCCTCGA	GCCGGAGATG	GANAAGAAAG	TCAGCCTACT	CAAGGACAAT	60
AGCTCTCTGG	AATTTGACTC	TGAGATGGTG	GAGATGGCTC	AGAAGTTGGG	AGCTGCTCTC	120
CAGGTTGGGG	AGGCACTGGT	CTGGACCAAA	CCAGTTAAAG	ATCCCAAATC	AAAGCACCAG	180
ACCACTTCAA	CCAGCAAACC	TGCCAGTTTC	CAGCAGCCTC	TGGGCTCTAA	TCAAGCTCTA	240
GGACAGGCAA	TGTCTTCAGC	AGCTGCATAC	AGGACGCTCC	CCTCAGGTGC	TGGAGGAACA	300
TCCCAGTTCA	CAAAGCCCCC	ATCTCTTCCT	CTGGAGCCAG	AGCCTGCGGT	GGAATCAAGT	360
CCAACTGAAA	CATCAGAACT	TCTCGAG	.*			387

- (2) INFORMATION FOR SEQ ID NO:395:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 553 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:395:

GAATTCGGCC	AAAGAGGCCT	ATCGAGAAGC	CTTGTTTATT	TAATGTGAGT	TTGTGCCTTT	60
TTGTCTCAAT	CTTCCAATAC	AGGTATATTG	AGAAAAAAAG	CAGTCTAATA	AAATCCTAGA	120
CAGAACTTTC	TGGAGTCCAG	TTTGGTGATG	TCCATTTTCC	AGCTGTATGT	ATCCTCAAAC	180
TTGCACTGAT	AACCGCCATT	TTACCAGGGC	AGGATTAGGA	AGAGGTACAA	AGGTGTGTCT	240
GAAAATTTTT	GCACGTGGAT	TTCTGCATAT	AATAGTCCCG	TGTCAGTTTA	CTTATGCAAA	300
CATTGCACAT	CTGAATTGTA	ATTCGGCCGT	TTCCTACTGA	CAGGATGTCC	TTTTGCTTTT	360
GTCTGCCTCC	TCTTCACATC	TTCCTCTTTA	TCCACCCTGC	AGCCGGGGGG	CGGGGGAGAC	420
CGGATCCCAG	GCAGGACAGT	GGCTAGGCTG	CGTGTCCCCA	CCCCCGACCC	TCGTTTGACC	480
CCTGGGAGCC	GGGGCGAAGA	CAGCACAAGG	ACGGAGCCCT	CGGATCCCTC	ACGAGTGGGG	540
CAGAGGCTGC	GGG					553

(2) INFORMATION FOR SEQ ID NO:396:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 472 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:396:

GAATTCGGCC	AAAGAGGCCT	ACAAGGTTAC	TTGACCAAGA	TGGTGACATT	GTAAGATTTG	60
AACAAAGGAA	ATGTGACTTC	AGAGTCATGG	TTGTTAACTA	TGCTATGAAG	TAGGAAAACT	120
TTATGAGGTC	TTTTTAACTC	AAACAGTCGA	GTTTTAAGTT	GAGGGTTAGC	AATGATGAAT	180
GAGTGGCCAA	AAAATGTATT	CATATTTTTA	GTCTTTCTTA	GAATTACTGG	TAGTTGTGCA	240
CAACTAGAGG	GTATTTATTT	GTGTGTGTAT	GTGTCGTGTG	TGTACGAGTG	CTGGAAATAC	300
TCTGCCAGTT	TACAGTAGAG	GCAGGCTTAC	ATAATTCAGT	CATGAAAGCT	GAGGCTTATA	360
GTTTAGAGGG	GATCGTCCTC	TTCTTAATGA	GTCTGTAAGT	TACAAAAATA	ACTTTTTTCT	420
TTATTTACTA	ACTGGTTGGT	TTTTAATATT	AAAATATTAG	GTGCTTCTCG	AG	472

- (2) INFORMATION FOR SEQ ID NO:397:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 548 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:397:

GAATTCGGCC	AAAGAGGCCT	AGATTGGGGG	ACATTCTTCT	TTAGAAGGAA	AAGAGTCTAA	60
TTAGTGGATA	TTAAGTAATT	AAATAATACA	TACTATCAAA	TATTATGAGA	GTCACATGAA	120
CCATGAAGTC	TTCACTTAAT	TTAGGAGAAA	TGGGGAATAT	TTTCTATCAT	TCCTGATAAC	180
AGAACTAGAT	ATTTCAAGAT	CATAGTCATG	GAATGTAATC	CATAATACCA	AACAGGGTGC	240
TTTACTTTGA	AGCCATTGAC	CATTAAATTT	GATTGTTAGT	AGCACAGGCT	ACCAAAAAAT	300
AGCAAGGAAT	ATGGTATCCA	CACAGATCTC	GGCTGGCCTC	AAGTAATCAA	AAGTGAGAAT	360
GAAACATACA	TGACACAACT	GGGGACCTCT	${\tt GGGTTTCTGA}$	GACGTGGGCT	ACAAGATTAT	420
ATTAGGTAGA	AAACTAAAGG	AAATGTATTC	CAAGCAAAAG	TGGCAAGGGA	ATTTCACAGA	480
ACTAATTTTT	TAAGGGAGGT	AATAAAAGCA	GCAGTTAAAA	TGCATGTCCA	TGTATCAGAT	540
TCCTGGAG						548

- (2) INFORMATION FOR SEQ ID NO:398:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 462 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: CDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:398:

GAATTCGGCC	AAAGAGGCCT	AGGCTAAATA	CCGGCACGAG	ACCGATTTTC	TGAAGACAGC	60
AGATTTATCA	CTGTTAATCC	AGCGGAAAAA	AACACCTCTG	GAATGATAAG	CCGCCCTGCT	120
CCAGGGAGGA	TGGAGTGGAT	CATCCCTCTG	ATTGTGGTAT	CAGCCTTGAC	CTTCGTGTGC	180
CTCATCCACT	TCTCAAACTC	GGAGAACTGC	AAGGAGCTGC	AGCTGGAGAA	GCACAAGGGC	240
GAGATCCTGG	GCGTGGTGGT	GGTGGAGTCG	GGCTGGGGCT	CCATCCTGCC	CACGGTGATC	300

CAGATCATGT	TGATGAATGG CGCCCGGCT GCCCGCTCGG GGAAGCTGAG CATCGGGGAC CCATCAATGG CACCAGCCTG GTGGGGCTGC CCCTCGCCAC CTGCCAAGGC GCCTGAAGAA CCAGACACAG GTAAAGCTCG AG	360 420 462
(2) INFORMA	ATION FOR SEQ ID NO:399:	
(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 428 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:399:	
GCATACTCTT CAAAAAACAT CTTCCCCAAT TTAGTGAGAA TCTTCTATGC	AAAGAGGCCT AGGCCGGCCA CACAGAAAAA TGCGAGGAAT AGAAATGCTT GATTTTTTTT TTTTTTTTG GTGTAAAAAA CACACCTCC CCTCCCACCC CAAATTCCTT CCTTTTCCCC AAATCCCTGG ATCTTGGAAT GAAAGCCACC CTGTCCTCAC CTCCTTCAGC CCATCCAAGT TATGCACAAA AAAACAAAAA ATTTGGGGAT TTGCACAACA AAAATTAGA TAATGTTTTC CAAAACTAGG TGTGTCAAAA AAAGTTTCCT ACAGACTGAG GATATTCACA CGACAGGAGC AATGAGCCTT TATTAGAATG TTGTAGCAGT TGTGTTTGAA GGCGGTGGCC	60 120 180 240 300 360 420 428
(2) INFORMA	ATION FOR SEQ ID NO:400:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 269 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:400:	
TTGTCATACT TTTTTCCTAG CTGTATCAGG CTTACTCCCA	TTCATGGCCT AAGTTGAAAC TTACGAGTAA CATACCTGGT GTCTGATTGG TTTCATTTC CCTCCTTCA GATCCAATCC ATTCTACACA TTATACTGAT TGTACTGATT TCTGTTATGT CACTTTGCTG CTTAGGCTTC TTAATGCTTA TGTAAACACC TTTTGCTTAC CTTTCCAGGC CTTTTTAGAG TCTTATATAG TGCTCCAACT CCCCTCGAG	60 120 180 240 269
(2) INFORMA	ATION FOR SEQ ID NO:401:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 236 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:401:	
TCCATTTTTA TGCACATTTG	TTCATGGCCT AGGCACTTTG AAGAGATATA GAACTCCGTG TATCACATTT TTTCAATTTT TAATTGCCCA GAGCCTAATT TCTGTGGGCC TCTGCTGATT AGATTCGTGT GTAAATATGC GTGTGGCATG TGTACACGCC TGGGCCTCCT TGTGCTCTCT CAGTGTTTAA ATACACACAA TCCACATCGA CTCGAG	60 120 180 236

- (2) INFORMATION FOR SEQ ID NO:402:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs(B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:402:

GAATTACCTT	ATACACATAG	CCTGAAGGTA	ATTTTATACA	ATATTTCCAA	TAGTTTTGTG	60
CTTCAAACAA	AGTTTGGGTA	CATTGAACCA	TCAGAAAGGA	AAGGTGTCAT	TGTCTCAGCC	120
ACCCATGTGG	ACAATCTCTG	GTTGTTTGGC	ATCACTGTTG	TTGCTGAGTC	TGAATGTGAG	180
GAACATGCCA	TTGGCATGTC	TTGCCCACAC	ACACACCATT	TTGTTATCTT	TTGTGGGTGT	240
GCTTATGTGG	GGGAATCTGG	GCGTGTGTGA	ATATAAAAAA	TTGCAGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:403:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 345 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:403:

GAATTCGGCC	TTCATGGCCT	ACTTGGGGTA	CTGAGATACA	TGGGGCCGAA	AAGGGGTAAT	60
ATGGCCATCT	TTTATCAGAA	AAAGTGACAA	AACGGGAATT	TAAAAAATGA	ATTTTCCATC	120
TGACTTTATT	TCCAAATACA	CTTTCTTTTT	TAAAAAACCA	ATACACTTTC	TTTGAGGATG	180
ACAGTATTAG	GAAATCCAAT	TATACAAAAA	ATACTACATC	TAGTCTGGGG	TAGATATATT	240
TATTTTTGGT	AACATACATT	AAGTGGCACT	AATTACACAG	TAACTATAAG	GTAACTAACA	300
TGAAACCACA	GAACTGTAAC	TCTGCCACAG	CTGCATGAAC	TCGAG		345

- (2) INFORMATION FOR SEQ ID NO:404:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 252 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:404:

GAATTCGGCC	TTCATGGCCT	ААААААААА	AAGCCATTAA	TCTAATTAAT	TGTTTAATCC	60
TGCTTACAAG	ATTATCTTGA	AAAAATGTGC	TGGGGAGTAT	GGTATAATGA	ATTACGGGTC	120
CAAGAATTTG	GGTTCAGATA	CCACCTTCAG	TCTTTACTAA	GCTGCGTGAC	TTTAGCAAAG	180
TGCTTAGTCT	CTCTAAGCTT	CGGTTTCCTA	ATCTATGAGG	AGGGCCTAAG	ATATCACCAC	240
CCATCACTCG	AG					252

- (2) INFORMATION FOR SEQ ID NO:405:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 305 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:405:

GAATTCGGCC	TTCATGGCCT	AAGAATACGA	AATTTGAGAG	GATGAATTTG	ACCTTTAATA	60
TTGTTGGACT	TTGTATTGGA	TATCTTTCCT	CCATCACTTC	AAAATCGTCT	TGCTTGGCCT	120
CTTATTGCAA	CCACAGCTGC	AGTAGACAGT	TCCATACAAG	CTTCCAAGAA	CTTCATGGGT	180
ACATCTGGAG	AGCACCTCAC	CTGGGGCCAC	ATTCTCTACC	TTTCCTGTCT	TACTCTTCCT	240
CCTCTGGGCT	TCTTTCTGGT	GCATGGGGGT	GGGGGGAGAT	ATTAAGTATT	CCCCAACAGC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:406:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 250 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:406:

GAATTCGGCC	TTCATGGCCT	ACACAGCAAC	AACCAACATA	GCTAATACAG	AAAGCAGTCA	60
GCAGACTCTA	CAGAATTCCC	AGTTTCTTTT	AACAAGGTTG	AATGATCCTA	AAATGTCTGA	120
AACGGAGCGC	CAGTCCATGG	AAAGCGAGCG	TGCAGACCGC	AGCCTGTTTG	TCCAAGAGCT	180
CCTTCTGTCC	ACTTTAGTGC	GTGAAGAGAG	CTCATCCTCA	GATGAGGATG	ATCGGGGGGA	240
GGTTCTCGAG						250

- (2) INFORMATION FOR SEQ ID NO:407:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 481 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:407:

GAATTCGGCC	TTCATGGCCT	AAAAGAAACT	AGGTGTGATT	GGÀAGGAAGA	ATCATGAAAG	60
ATCAGGGTAG	ATACTGGTGG	GGCAGCTATT	AAAGGAGTTT	GAGCAGGGGC	ATGACATCTT	120
CACATTGAAA	GCAATATGGG	AGTCGAATTA	AATTTAGTAC	CCAGTTGAGA	TAAAAGTCCA	180
TTGCCATATT	CACAGTGAGG	TGGGACAAAA	GCAGAGTCAG	AGAGATTAAG	AGGCTGGGAA	240
AGATTGAAGT	GATTTTTAGG	AATCAGAATC	CACATCAGTT	GATGACAAGT	ACAGAAGGGC	300
ACAATAGCAA	GAAGAAGAAG	TAAATGATAA	TTCCTAGATG	CCATTAGTCA	CAATCAAGTA	360
CGGAAGAGAC	ATTATTGACT	GAGGTTGAAT	CAGGGCAGAG	AAGATAATAT	ACCTGATTTT	420
GGAAGTGTTG	CATGTAAGGG	GGCTTCGATT	TCAGCTACTT	ACATACTTGG	GAAGTCTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:408:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 308 base pairs

300

315

- PCT/US98/06956 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:408: GAATTCGGCT TCATGGCCTA CCCGGCAATT GGCTGATCCG CAGAAACATT TCTGGGCTTC 60 TTTTCCATAT CTCTGGAACT GATAGTCAAA CGTTAACTCT GAGCCTGAAG GAACCAGTTT 120 GGTGGTAAAA AACCCAACCC TCAGTTGTCC GTTCACAGTC CATTTTTGGG TTTCACAATT 180 TGGTTCACAG CTGTGATTCA TGAAACGAGA GCAATTTCCT TTTTGAGTGG CATCTATTAT 240 CTCATCATTC TTCAGGGCCA TGAAATAGTA ATGGATGTTT TTGTTTCGTG CATACTCCTT 300 CACTCGAG 308 (2) INFORMATION FOR SEQ ID NO:409: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:409: GAATTCGGCC TTCATGGCCT ACAATGAGGA TAATACAAAA GAGCAATCTG CCCCACTGTG 60 AGCCTGAGCT TCCCATACTG ACTTCTCTCT CTCCAGAGGG ATCCACTCCT ACCAGTCTGG 120 AAAGCACTGG GCATACAAGC GCACAAATGC GTGGCACATA CTACAAATCC TTCTAAAGCC 180 ACTGCTGTAC ACCTGCCTCA CTTAACCATG CAGCCTCAAG GCTGTCTCAT GTCATTCTTT 240 CCTACAGCTG CAGAGTTTTC AACATATGGA CAGGTGTGCC AGGATTTATT TGACTAGTCT 300 CTTACTGATC TAGCTCACCT CCTAAATACA ACTCGAG 337 (2) INFORMATION FOR SEQ ID NO:410: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:410: GAATTCGGCC TTCATGGCCT AAAATGTGGG GATTGGGAAC CACTAGTTCT TTCAGATGGT 60 ATTCTTCAGA CTATAGAAGG AGCTTCCAGT TGAATTCACC AGTGGACAAA ATGAGGAAAA 120 CAGGTGAACA AGCTTTTCT GTATTTACAT ACAAAGTCAG ATCAGTTATG GGACAATAGT 180 ATTGAATAGA TTTCAGCTTT ATGCTGGAGT AACTGGCATG TGAGCAAACT GTGTTGGCGT 240
- (2) INFORMATION FOR SEQ ID NO:411:

CTAAAGGCAC TCGAG

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs

GGGGGTGAG GGGTGAGGTG GGCGCTAAGC CTTTTTTTAA GATTTTTCAG GTACCCCTCA

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

1	m	TOPOLOGY:	linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:411:

GAATTCGGCC	TTCATGGCCT	ACCTGAACCC	CTTACTTCGA	AGGATCATAA	GATTCACAGG	60
GGTGTTTGCA	TTTGGACTTT	TTGCTACTGA	CATTTTTGTA	AACGCCGGAC	AAGTGGTCAC	120
TGGGCACTTA	ACGCCATACT	TCCTGACTGT	GTGCAAGCCA	AACTACACCA	GTGCAGACTG	180
CCAAGCGCAC	CACCAGTTTA	TAAACAATGG	GAACATTTGT	ACTGGGGACC	TGGAAGTGAT	240
AGAAAAGGCT	CGGAGATCCT	TTCCCTCCAA	ACTCGAG			277

- (2) INFORMATION FOR SEQ ID NO:412:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs
 - (B TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:412:

GAATTCGGCC	TCATGGCCTA	GTGGTAGGGC	TGAATTCGCA	CTATAGGGTT	AGATTTTCTA	60
CTGTAGGGTT	$\mathbf{AGATTTTTT}$	AATGGTGTGT	ATATAATAAT	ATAATATTAA	TAATAATCGG	120
AGAGGGTCAA	AGAGGAGGGA	AACTGGGTAA	CCCAAAAACA	TAAGGTCGAG	GTCCCTGTTC	180
TTCACCGGAA	AGAGGGTCAA	GGACCAAAGC	CATAGATTTG	ACTGGTAGTT	TAGTTTAGTC	240
CTGTCTACGA	AGAAGAAGAG	CGGTTGTTTG	TTTTAACAGA	TTCAAGAGCA	GGAAGCACTC	300
ATTTAGATAA	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:413:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 249 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:413:

GAATTCTAGA	CCTGCCTCGA	GTCAGGCTTT	TAAAAACAAT	CTCATCTGTC	CCTCTAAAAA	60
TTAGCTTCCT	TTAGAACCTC	TTCTCCTTGG	CAATATATTA	GTGATACTAT	TGTTATCTTC	120
ACACTAAAGA	TTCAAAACTT	TAGTTTTTGT	TTTAGGAAAG	TTTTTTTTTT	TTACATTTCT	180
TTCATCCTTC	ATAATTACCC	AGTCATCATG	AACTTTGTAG	TTATCTATTT	CTTCATAGGA	240
ATCCTCGAG						249

- (2) INFORMATION FOR SEQ ID NO:414:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:414:

GAATTGATAC	TAGGGACCGA	AGGGAACTAA	GAGACTCCAG	AGACATGCGG	GACTCAAGGG	60
AGATGAGAGA	TTATAGCAGA	GATACCAAAG	AGAGCCGTGA	TCCCAGAGAT	TCTCGGTCCA	120
CTCGTGATGC	CCATGACTAC	AGGGACCGTG	AAGGTCGAGA	TACTCATCGA	AAGGAGGATA	180
CATATCCAGA	AGAATCCCGG	AGTTATGGCC	GAAACCATTT	GAGAGAAGAA	AGTTCTCGTA	240
CGGAAATAAG	GAATGAGTCC	AGAAATGAGT	CTCGAAGTGA	AATTAGAAAT	GACCGAATGG	300
GCCGAAGTAG	GGGGAGGGTT	CCTGAGTTAC	CTGAAAAGGG	TAGGCTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:415:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 529 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: CDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:415:

GAATTCGGCC TTCATGGCGT	TAAAACTGTG	CCTAACAGAG	GTGTCCTCTG	ACTTTTCTTC	60
TGCAAGCTCC ATGTTTTCAC	ATCTTCCCTT	TGACTGTGTC	CTGCTGCTGC	TGCTGCTACT	120
ACTTACAAGG TCCTCAGAAG	TGGAATACAG	AGCGGAGGTC	GGTCAGAATG	CCTATCTGCC	180
CTGCTTCTAC ACCCCAGCCG	CCCCAGGGAA	CCTCGTGCCC	GTCTGCTGGG	GCAAAGGAGC	240
CTGTCCTGTG TTTGAATGTG	GCAACGTGGT	GCTCAGGACT	GATGAAAGGG	ATGTGAATTA	300
TTGGACATCC AGATACTGGC	TAAATGGGGA	TTTCCGCAAA	GGAGATGTGT	CCCTGACCAT	360
AGAGAATGTG ACTCTAGCAG	ACAGTGGGAT	CTACTGCTGC	CGGATCCAAA	TCCCAGGCAT	420
AATGAATGAT GAAAAATTTA	ACCTGAAGTT	GGTCATCAAA	CCAGCCAAGG	TCACCCCTGC	480
ACCGACTCTG CAGAGAGACT	TCACTGCAGC	CTTTCCAAGG	ATGCTCGAG		529

- (2) INFORMATION FOR SEQ ID NO:416:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 363 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:416:

GAATTCGGCC TTCATGG	CCT ACTGAGCCTA	GTAATTCAAG	GCTGCAGTGA	GCTGCGATCA	60
CATCACTGCA TTCCCGC	CTG GGCAACAGAA	GTAGACTCCA	TCTCTAAAAA	GAAGGAAAGA	120
AAAAAAGGAA GAAATAT	ACA GTAATTTTAA	ACTGGGAGAT	GAAATGCTAA	TTTCTAGAAG	180
TCCATTTGGT TTTGAAG	GGT CTCATGTCAA	ААААААААА	AAGTAAGTAA	AATAAGACCC	240
ATCCTACTGT TTTATAT	ACT AAAATAGTAA	GTTAATTAAA	TGAAAATGAA	GTACATTTGG	300
GCTTTCATTT ACCAATO	CTG GAATGTTGAA	AAGTTGCCCA	AAAGACATTT	AGCAAGACTC	360
GAG					363

- (2) INFORMATION FOR SEQ ID NO:417:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 129 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii)	MOLECULE	TYPE:	CDNA
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(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	NO:417
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GAATTCGGCC	TTCATGGCCT	ACCTGAAAGC	CCATCTCCTC	CAACTTGCAG	CGCCGGTAGA	60
GCTCGTAGTG	CCGGCTGTGG	GTCTGCTCGC	GGAGGTCTTC	CATGTTCACC	CGGATCAACC	120
TGCCTCGAG						129

- (2) INFORMATION FOR SEQ ID NO:418:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:418:

GAATTCGGCC	TTCATGGCCT	AGGAGGTGGG	TATAGGGAAC	ACTTGGGGAG	AAATAGTGAA	60
ATCTGAATAT	AGACTGTGCA	TTGTATCATT	TAGTATAAAT	GTTGACTTGC	CTGATTTTGT	120
TGTTGAAGGC	ACTGTGGTTA	CACAAGAGAA	CGTCTGTCTT	CCTAAGTGAT	GCATGCCAAG	180
GTTTGCAGGG	GCATCCTGTC	TGCAATTACT	CTCAAATAGA	TCAAAATAAT	AATAACGTGT	240
GTGTGCATGA	TGGAGACAGG	GAAGAAGAAA	GGAAAGGGCT	CGAG		284

- (2) INFORMATION FOR SEQ ID NO:419:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:419:

GCCAGCAC	AT TGTGGAACAG	AAAAATGGCA	AAGAAAGAGT	GCCCATCCTC	TGGCATTTCC	60
TGCAGAAG	GA AGCAGAGCTG	AGGCTGGTAA	AGTTCCTGCC	TGAGATTTTG	GCCTTGCAAA	120
GGGATCTA	GT GAAGCAGTTC	CAGAACGTCC	AGCAAGTTGA	ATACAGCTCC	ATCAGAGGCT	180
TCCTCAGC	AA GCACAGCTCA	GATGGGTTGA	GGCAGCTGCT	TCACAACAGG	ATCACAGTCT	240
TTCTGTCC	AC ATGGAACAAA	CTGAGGAGAT	CGCTTGAGAC	GAACAGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:420:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 304 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:420:

GGAACCAACA GAACAACCTG TGAGGAAGAA CAAAATGGCC TCTAATATCT TTGGGACACC 60 TGAAGAAAAT CAAGCTTCTT GGGCCAAGTC AGCAGGTGCC AAGTCTAGTG GTGGCAGGGA 120

7	PCT/US98/06956
AGACTTGGAG TCATCTGGAC TGCAGAGAAG GAACTCCTCT GAAGCAAG CTTAGATCTG AAGGGAGAAG GTGATATTCA TGAAAATGTG GACACAGA CCTGGGGCAG AGTGAAGAGA AGCCCGTGCC TGCTGCGCCT GTGCCCAG CGAG	CT TGCCAGGCAG 240
(2) INFORMATION FOR SEQ ID NO:421:	•
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 256 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:421:	
TAATTTAGAT TATACAGAAC TTGGCCTGCA GAAACTGAAG GAGTCTGG CTTTGCCTCT TTCTCTGATT ATTATTATAA GTGGTCCTCG GCGGATTC TGGATTGATT ACCATCGTGG TACTCCTTGG GATCGCCTTT GTAGTCTA GAGTGACGGG CAGTATTCTC CTCCACCGTA CTCTGAGTAT CCTCCATT CCAGAGACAA CTCGAG	CT GTAACATGAG 120 TA AGCTGTTCCT 180
(2) INFORMATION FOR SEQ ID NO:422:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:422:	
GCGATTGAAA TGGATCCTCC AGCTCTTCCA CCAAAGCCAC CTAAGCCA GTTCCAAATG GAATGAAGGA CAGTTCTGTT TCTCTTCAGG ATGCAGAA GATATTTCAA GGGAGGAGGT AAATGACAAA TTGCGGGATA TGCCAGAT GTCCGAGATG CCTCAACAAA AATGCAGAGA CTCGAG	TG GTACTGGGGG 120
(2) INFORMATION FOR SEQ ID NO:423:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:423:	
GAATTCGGCC TTCATGGCCT AAAATTAATG AGTTGAACCT GTGACCAC GAGTCACCCA AGAGAGGT GGGGAGTCGA ACAGAGCTCC TTTACTTT AAAAGGTGGA ATTCTGGGCT GGCTTTCCCT CACCAGAGGG TATCCCCAA AGAAAAATGC CAGTCTCTT TGGAAAGTAG GGAATGCCCT AGTGATGC CAAGCCTCCA TCTTCCCCGG GGAAATTTGA AACCAAGATG GGGTCCTG TAGCATTTAT TGAGTGCCTA TTAGACAGGT GGCCTTGGGC TTTGAAAT TTAACTTAAT TCTGAGAACG TATCTCGAG	CT CCCACAGAGG 120 AT CTATGACAAA 180 TG TATGAAGAAG 240 TC AATGACCCTC 300

- (2) INFORMATION FOR SEQ ID NO:424:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 411 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:424:

GCCCGTGCTG	ATGTCTTTGA	AAGAAGGCTA	TAAGAAGTCC	TCAAAAATGG	TATTTAAGGC	60
TCCCATCAAA	GAAAAGAAGA	GTGTTGTGGT	CAACGGAATA	GATTTATTAG	AAAATGTCCC	120
ACCCAGGACA	GAGAATGAGC	TCCTTCGAAT	GTTCTTCCGG	CAGCAGGATG	AGATTCGACG	180
GTTGAAAGAG	GAGCTGGCCC	AGAAGGACAT	CCGCATTCGG	CAGCTCCAGC	TGGAACTGAA	240
AAACTTGCGC	AACAGCCCCA	AGAACTGTTA	GCTCCCCAGC	TGGGCTGTTT	TCTAAGCCGA	300
TCTCTCCGTC	GTTTCTACTC	ATCCCTTAAC	TTCTCCCTTA	CCAGTGACCC	CAGAGACAGA	360
GCCAGGACAG	GAGTGGGGGC	CAGCCTGAGG	ACCCCCGCCT	ACCACCTCGA	G	411

- (2) INFORMATION FOR SEQ ID NO:425:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 691 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:425:

GGTACCAACA GGACACCCCG	GTGGCCCCC	GCTTTGACGT	CAATGCCCCG	GACCTCTACA	60
TTCCAGCAAT GGCTTTCATC	ACCTACGTTT	TGGTGGCTGG	TCTTGCGCTG	GGGACCCAGG	120
ATAGGTTCTC CCCAGACCTC	CTGGGGCTGC	AAGCGAGCTC	AGCCCTGGCC	TGGCTGACCC	180
TGGAGGTGCT GGCCATCCTG	CTCAGCCTCT	ATCTGGTCAC	TGTCAACACC	GACCTCACCA	240
CCATCGACCT GGTGGCCTTC	TTGGGCTACA	AATATGTCGG	GATGATTGGC	GGGGTCCTCA	300
TGGGCCTGCT CTTCGGGAAG	ATTGGCTACT	ACCTGGTGCT	GGGCTGGTGC	TGCGTGGCCA	360
TCTTTGTGTT CATGATCCGG	ACGCTGCGGC	TGAAGATCTT	GGCAGACGCA	GCAGCTGAGG	420
GGGTCCCGGT GCGTGGGGCC	CGGAACCAGC	TGCGCATGTA	CCTGACCATG	GCGGTGGCGG	480
CGGCGCAGCC TATGCTCATG	TACTGGCTCA	CCTTCCACCT	$\tt GGTGCGGTGA$	GCGCGCCCGC	540
TGAACCTCCC GCTGCTGCTG	CTGCTGCTGG	GGGCCACTGT	GGCCGCCGAA	CTNATCTCCT	600
GCCTGCAGGC CCCAAGGTCC .	ACCCTGTCTG	GCCACAGGCA	CCGCCTCCAT	CCCATGTCCC	660
GCCCAGCCCC GCCCCCAACC	CAAGGCTCGA	G			691

- (2) INFORMATION FOR SEQ ID NO:426:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:426:

GCAGACCATA	TATCGAAAGT	TCTTTACTTG	TATCAAGGTG	AGAAAAAATT	AGAAGAGATA	60
TTACCTCTGG	GACCAAACAA	AGCTCTTTTT	TATAAAGGAA	TGGCATCATA	TCTTTTACCA	120

GGACAAAAAT CTCCATGGTT	TTTCCAAAAA	CCCAAAGGTG	TAATAACTTT	GGACAAACAA	180
GTAATATCCA CGAGTTCAGA	CGCCGAATCC	AGGGAAGAAG	TTCCCATGTG	TTCAGATGCT	240
GAATCCAGGC AAGAAGTTCC	CATGTGTACA	GGCCCTGAAT	CCAGGCGAGA	AGTTCCCGTG	300
TATACAGATT CTGAACTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:427:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 190 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:427:

GAATTCGGCC	TTCATGGCCT	ATATACTATC	AAATGAAAAT	AGCAAGATGC	TACCATTTAT	60
ATTAAAAAGA	GGACAAAATA	TTAATATATT	CATGGTTGCT	TGTCTATGTG	GAATATTTCT	120
GGATATATAC	ATAAGAAGTT	ACATTGGTTA	CCTATGGGCA	GGTTACTACT	GGGTGGCAGG	180
TGGGCTCGAG						190

- (2) INFORMATION FOR SEQ ID NO:428:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 670 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:428:

GAATTCGGCC TTCATGGCCT	AGGCAAAGCT	GGCCCTGACG	CCTGGGTTTC	TTGGCCCCAG	60
CTGCCCAGCA GGTGCCTCGA	TTCCCTGCCC	TTGTGACCTC	CCAGGAAACA	GAACTGATCT	120
GGGACACTAT GTCACCTCTC	CTCTCATCTG	${\tt GGGTCAGTCA}$	GGGTTCGGGG	GCTGCAGCAG	180
CCAAGCGCAT GAGAGGTGTT	TCCTTGGCCT	TCCAGAAGGC	CCACTGTGGA	GCCAGCCTCC	240
CTATGGGAGG CAGAGCGGCA	AGGACAGGGC	TTTGGAATCA	GCCAGGTCGG	CTCCTGGGCT	300
GTGGCCGTGG AGAAACACTG	CCCCCAGGAT	GACACAGGCA	AGAGCCCCTG	AGGCATGGGA	360
GGCCCAGGGA AGACCATGGG	CTGTAGGGGA	GAGTGTGGCA	${\tt GGTGACCCAA}$	AGGCCCAAAG	420
AGGGCCGTGG GGCCTGAGGA	GGTCATAATC	TCTTCTGAGT	GGGGGCAGGT	CGATTCTTGC	480
ACAAGGTGGG CTCTTCACTG	AGCCATAAGG	GACAGGGAGG	TATGGGAGAG	CGCTGGGGGC	540
CCATCCCCCT GTCCACCCAG	TGTCCACTGG	CCTGTCCTTC	AGGGAGCAGA	GCAGAGCAGG	600
TGGTGGACGG GCCCAGTGCT	GGGTGTTTTC	ACCACCATCC	CCCCATCCCC	CATCTAAGTC	660
GCTCCTCGAG					670

- (2) INFORMATION FOR SEQ ID NO:429;
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 278 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:429:

GTAAGGATTG GCC	GATTCCTA CAGCGAATGA	TCACCGCTCC	CTGCATCCTC	TTCCTGTTTT	60
ATGGCTGGCC TG	GTTTGTTC CTGGAGTCCG	CACGGTGGCT	GATAGTGAAG	CGGCAGATTG	120
AGGAGGCTCA GTO	CTGTGCTG AGGATCCTGG	CTGAGCGAAA	CCGGCCCCAT	GGGCAGATGC	180
TGGGGGAGGA GG	CCCAGGAG GCCCTGCAGG	ACCTGGAGAA	TACCTGCCCT	CTCCCTGCAA	240
CATCCTCCTT TTC	CCTTTGCT TCCCTCCCCA	ACCTCGAG			278

- (2) INFORMATION FOR SEQ ID NO:430:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:430:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCTGTTCATC	TTTAAATGCT	60
GTTTTCTCTG	TTCAAAATGC	CCTTTCCTAC	CTTATCTACT	TGTGCCACTG	CATATTCCTA	120
AGGCTCAACT	CAGGGTATCT	TCCCTCGGAA	ACCTTGTCTG	ATCATCCTGG	CCCCTCTGGC	180
GGACAGTAAT	TTCTGCCTCT	GTGCTCCCAT	CACCTGAGCA	CACCTGTATG	GTGCTGCTGA	240
GCCCGCTGAA	TTGGCATTAT	GGGCACGTGC	GTCTCCTCCA	TTCCATGGAG	CTCCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:431:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:431:

GTTACATGAC	ACTGTTAATG	ATTGCATTTG	GCTTGCTGTG	GGGGCATCTC	TTGCGGATCA	60
AACCCACGCA	GAGCGTCTTC	ATTTCCACGT	GTCTGTCCTT	GTCAAGCACA	CCCCTCGTGT	120
CCAGGTTCCT	CATGGGCAGT	GCTCGGGGTG	ACAAAGAAGG	CGACATTGAC	TACAGCACCG	180
TGCTCCTCGG	CATGCTGGTG	ACGCAGGACG	TGCAGCTCGG	GCTCTTCATG	GCCGTCATGC	240
CGACTCTCAT	ACAGGCGGGC	GCCAGTGCAT	CTTCTAGCAT	TGTCGTGGAA	GTTCTCCGAA	300
TCCTGGTTTT	GATTGGTCAG	ATTCTTTTTT	CACTAGCGGC	GGCTCTCGAG	•	350

- (2) INFORMATION FOR SEQ ID NO:432:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:432:

GAATTCGGCC	TTCATGGCCT	ACCAGGTTCT	TGCTGCCCTG	CGACTCCAGT	ATCTGCAGGG	60
GGATTATACT	CTGCACGCTG	CCATCCCACC	TCTCGAAGAG	GTTTATTCCC	TGCAGAGACT	120
CAAGGCCCGC	ATCAGCCAGT	CAACCAAAAC	CTTCACCCCT	TGTGAACGGC	TGGAGAAGAG	180
GCGGACGAGC	TTCCTAGAGG	GGACCCTGAG	GCGGAGCTTC	CGGACAGGAT	CCGTGGTCCG	240

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs (B) Type: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:433: GAATTCGCCC TCATGGCCTA CTCCTCAGCC CCTCATCTTG CCTCCACCCA GCTGCTCCAT TTTTGCCACA TCGTGGCCCG CAGCCCCAGA GTCACTGTCC ATGTCACCAT CCTCCTCCTC TTTTGCACAC TCGTGGCCCG CAGCCCCAGA GTCACTGTCC ATGTCACCAT CCTCCTCCTC CTTTGGAATC CTCCTCGCCC ACTTGTGCCT TGGTCTCAGG GCCCACAGGC TGAACTGTGG GCCATTGGGT TGGATGTCCC CACTTATCTC GAG (2) INFORMATION FOR SEQ ID NO:434: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: CGAGTGAGGG GGCGGGACAG TCCTTGTGGA ACTGAACACA ACAAAAGTAT GGATATGGA AACCAACATC CTTCTATTAG TAGGCTTCAG GATACCAAGA ACTGAAGGA 180 AACCAACATC CTTCTATTAG TAGGCTTCAG GATACCAAGA ATTACAAGAA ACTGGAGGG AACCAACATC CTTCTATTAG TAGGCTTCAG GATACCAAGA ATTACAAGAA ACTGGAGGG AACCAACATC CTTCTATTAG TAGGCTTCAG GATACCAAGA ATTACAAGAA ACTGGAGAGG AACCAACATC CTTCTATTAG TAGGCTTCAG GATACCAAGA ATTACAAGAA ACTGGAGAGG AACCAACATT TCGGCTTCAT TGTCTTCTCA GATAGACACA ACAAAAGTAT GGATATGGAA 120 CAGCAAGTTA TCGGCTTCAT TGTCTTCTCA GATACCAAGA ATTACAAGAA ACTGGAGAGG AACCAACATT TCGGCTTCAT TGTCTTCTA GATACAAGA ATTACAAGAA ATTACAAGAA ACTGGAGAGG (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CBSCRIPTION: SEQ ID NO:435: GAATTCGACCT TCCTGGCC TAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT 60 ATAACAACAAA GAAGTAAGCA AATATGGCAGA AATGTGTGGG CTTACTTTTGA 120 CCCATAGTGGT GCCCCTATA TTGTGGCTC CCGGGGTTCC TACACATCCT TCCCGATGGA 120 CCCATAGTGGT GGCCCTATA TTGTGGCTC CCGGGGTTCC TACACATCCT TCCCGATGGA 120 CCCATAGTGGT GGCCCTATA TTGTGTGCTC CCGGGGTTCC TACACATCCT TCCCGATGGA 120 CCCATAGTGGT GGCCCTATA TTGTGTCTCC CCGGGGTTCC TACACATCCT TCCCGATGGA 120 CCCATAGTGGT GGCCCTATA TTGTGTGCTC CCGGGGTTCC TACACATCCT TCCCGATGGA 120 CACAAAGGGGT G	GCAGAAGGTC GAGGAGGAGC AGATGCTGGA CATGTGGATT AAGGAAGAAG TCTCCTCTGC TCGAG	300 305
(A) LENGTH: 273 base pairs (B) Type: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:433: GAATTCGGCC TCATGGCCTA CTCCTCAGCC CCTCATCTTG CCTCCACCCA GCTGCTCCAT TTTTGCCACA TCGTGGCCCTA CTCCTCAGCC CTTCATCTG CATGCCAACC TCTCCTCCTC CTTTGGATC CTCTCCGCAC ACTUTGGCCC TTGCTCAGG GCCCAAGAG TGAACTGTG GCATAGCTCTC TCTCTTCTTC CAGAGAGACT CAGAGCCTA CATTCCCATT CCTGGTATGT GCCATTGGGT TGGATGTCC CACTTATCT GAG GCCATTGGGT TGGATGTCC CACTTATCT GAG (2) INFORMATION FOR SEQ ID NO:434: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) Type: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: CGAGTGAGCG GGCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGA AACCAACATC CTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAGTTAA AACTGAGAGA AACCAACATA TGGGCTTCAG TGGTCTGTCA GATAACAACAA ATCAAGAAA ATGGAGAGA ATTCTAACAA AACAGCTTT TGAAATAGAC TCTGTAGAGA ATTGAAGAA ACGGAGGTAT CAGCAAGATA TGGGCTCAG TGGTCTGTCA GATAACAACAA TATCAAGAA AGGAGGTAA CAGCAAGATA TGGGCTCAG TGGTCTGTCA GATAACAACAA TATCAAGAA ATGGAGAGG AATGCAAACTA CCCACACCT CGAG (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) Type: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TCATTGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT ATAACACAAA GAAGTAAGACA AATATGGCAA AATTTTGGCTT CACAGAGGAA AGAAGGGGTT GGCCATGTA TCCTGGGCT CCGGGGGTTCC TACACATCCT TCCCAATGGA AACAAAGGGGTT GGCCATGTA TTCGTGGCT CCGGGGGTTCC TACACATCCT TCCCAATGGA AACAAGAGGGTT GGCCATGTA TTCGTGGCT CCGGGGGTTCC TACACATCCT TCCCAATGGA AACAAGAGGGTT GGCCATGTA TTCTTGGGCT CCGGGGTTCC TACACATCCT TCCCAATGGA AAAAGAGGGTT GGCCAAAAAAAAAAAAAAAAAAAAAAAA	(2) INFORMATION FOR SEQ ID NO:433:	
GAATTCGGCC TCATGGCCTA CTCCTCAGCC CCTCATCTTG CCTCCACCCA GCTGCTCCAT TTTTGCACA TCATGGCCCA CTGCTCAGCC GCTCATCTTG CCTCCACCCA CCTCTCTCTC CTTTTGGAATC CTCTCCGCAC ACTGTGGCCC TTGTCTCAGG GCCCACAAGC TGAACTGTG CATAGCTCT CTCTCTCTC CAAGAAGACT CAGCAGACCA CATTCCCATT CCTGGTATGT GCCATTGGT TGCATGTCCC CACTTATCTC GAG GCCATTGGT TGCATGTCCC CACTTATCTC GAG (2) INFORMATION FOR SEQ ID NO:434: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: CGAGTGAGGG GGCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGA AACCAACATC CTTCTATTAG TAGGCTTCAG GATACCACAA ATTACAAGAA ACTGAGAGAG AACCAACATC CTCTCTATTAG TAGGCTTCAG GATACCACAA ATTACAAGAA ACTGAGAGAG AATTCTAACAA AACAAGTTTT TGCAATAGAC TCTGTAGATA TCTGAAGAAAA AACAGAGTTA TCGCGTTCAG TGGTCTGTCA GATGACAACAA ATTACAAGAA ACTGAGACAA AATGCAAACAT ACCCACACCT CGAG (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEGNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEGNESS: double (D) TOPOLOGY: LINEAR (A) LENGTH: 748 base pairs (B) TYPE: nucleic acid (C) STRANDEGNESS: double (D) TOPOLOGY: LINEAR (A) LENGTH: 748 base pairs (B) TYPE: nucleic acid (C) STRANDEGNESS: double (D) TOPOLOGY: LINEAR (A) LENGTH: 748 base pairs (B) TYPE: NUCLEIC ACAGACATA TAGACACATA TAGACACAAA AACAAAAAAAAAA	(A) LENGTH: 273 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GAATTCGCCC TCATGGCCTA CTCCTCAGCC CCTCATCTTG CCTCCACCCA GCTGCTCCAT TTTTGCACA TCGTGGCCCG CAGCCCCAGA GTCACTGTCC ATGTCACCAT CCTCCTCCTC TTTTGGAATC CTTCTGCGCC CAGCCCCAGA GTCACTGTCC ATGTCACCAT CCTCGTCTGC 180 CATAGCTCTC TCTTCTTCTC CAAGAAGATC CAGCAGCCTA CATTCCCATT CCTGGTATGT GCCATTGGGT TGGATGTCCC CACTTATCTC GAG (2) INFORMATION FOR SEQ ID NO:434: (i) SEQUENCE CHARACTERISTICS: (A) LEMGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: CGAGTGAGCG GGCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGGA AACCAACATC CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA AACCAACATC CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA AATTCTAACAA AACAGCTTT TGAAATAGAC TCTGTAGATA CTGAAGGAAA ACTGGAGAGG AATTCTAACAA AACAGCTTTT TGAAATAGAC TCTGTAGATA CTGAAGGAAA AGGAAGTATT 240 CAGCAAGATT GGAGCGGCA GCACAGGAG ACAGGAACTC TTCTCAAAGA GTTGGAGCAG (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LEMGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TTCATGGCT AAATGATCAA ATTTTTGGCTT ACATATTTTG CAACAGTGT TACTTTTTGATACAAAAAAAAAA	(ii) MOLECULE TYPE: cDNA	
TTTTGCACA TCGTGGCCC AGCCCCAGA GTCACTGTC ATGTCACAT CCTCCTCC TTTTGGAATC CTCTCCGCAC ACTGTGGCCC TTGTCTCAGG GCCCACAGGC TGAACTGTGG CATAGCTCT CTCTTCTCT CAAGAAGACT CAGCAGGCTA CATTCCCATT CCTGGTATGT 240 GCCATTGGGT TGGATGTCCC CACTTATCTC GAG (2) INFORMATION FOR SEQ ID NO:434: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: CGAGTGAGGG GGCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGGA AACCAACATC CTTCTATTAG TAGGCTTCAG GAAAACCA ACAAAAGTAT GGATATGGAA AACAACATC CTTCTATTAG TAGGCTTCAG GATACCAAA AGGAAGTAAA AACTGGAGAGA ATTCTAACAA AACAGCTTT TGAAATAGAC TCTGTAGATA CTGAAGGAAA ACGAAGATAT CAGCAAGGTA GGAAGCGGG AGCACAGGAG ACAGAACGT CTCTCAAAGAA ATGACAAGAA ATGAGAAAACT CACCACACCT CGAG (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTG CAACAGTGGT ATACACAAAA GAAGTAAGCA AATAGGACA GAAGTAGGG GACCACAGAGAAAACGAC TCCTGTGGGT TACTTTTGAA (xi) SEQUENCE CGGGGGCCCAGGAACCGC TCCTCAGGGG TCCAACAGAAAAACGAAAAAACAGAAAAAACACAAAAAAAA	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:433:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: CGAGTGAGCG GGCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGGA AACCAACATC CTTCTATTAG TAGGCTTCAG GATAATCCAAA AGGAAGTAAA AAGTGTAGAA ATTCTAACAA AACAGCTTTT TGAAATAGAC TCTGTAGATA ATTACAAGAA ACTGAGAGGG ATTCTAACAA AACAGCTTTT TGAAATAGAC TCTGTAGATA CTGAAAGAAA ACTGGAGAGG AATGCAAAGCT ACCCACACCT CGAG (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT ATACACACAAA GAAGTAAGAAAAAAAAAA	TTTTGCCACA TCGTGGCCCG CAGCCCCAGA GTCACTGTCC ATGTCACCAT CCTCCTCCTC CTTTGGAATC CTCTCCGCAC ACTGTGGCCC TTGTCTCAGG GCCCACAAGC TGAACTGTGG CATAGCTCTC TCTTCTTCTC CAAGAAGACT CAGCAGCCTA CATTCCCATT CCTGGTATGT	120 180 240
(A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: CGAGTGAGGG GGCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGGA AACCAACATC CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA 120 CAGCAAGTTA TCGGCTTCAG TGGTCTGTCA GATGACAAGA ATTACAAGAA ACTGGAGAGG ATTCTAACAA AACAGCTTT TGAAATAGAC TCTGTAGATA CTGAAGGAA AGGAGATAT CAGCAAGCTA GGAAGCGGC AGCACAGGAG ACAGAACGTC TTCTCAAAGA AGGAGATAT ACCCACACCT CGAG (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT 60 ATAACACAAA GAAGTAAGCA AATTATGGCAG AAGTGTGGGG GCTTTGGGGT CTACTTTTGA 120 CCATAGTGGT GGCCCTAAAAG GTCAGCCAGC TGATGGGTTG GACCAAGAAA GACAGAGTGA 180 AGAAGGGGTT GGCCAAAAAG GTCAGCCAGC TGATGGGTTG GACCAAGAAA GACAGAGTGA 240 TAAAGATGAG TGACACCATG TTCTATCATT TTGTATTAGA TGCACCAAAA AACTATTCTG 300 TTATTGTGAT GCTTACTGCT GCTCTCCACC CGTTCAGTTC ATCGTCATC TCCCAAAGGTG 366	(2) INFORMATION FOR SEQ ID NO:434:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:434: CGAGTGAGCG GGCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGGA ACCACACAC CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA 120 CAGCAAGTTA TCGGCTTCAG TGGTCTGTCA GATGACAAGA ATTACAAGAA ACTGGAGAGG 180 ATTCTAACAA AACAGCTTTT TGAAATAGAC TCTGTAGATA CTGAAGGAA AGGAAGTATT 240 CAGCAAGCTA GGAAGCGGC AGCACAGGAG ACAGAACGTC TTCTCAAAGA GTTGGACAGG 300 AATGCAAACT ACCCACACCT CGAG 324 (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT 60 ATAACACAAA GAAGTAAGCA AATATGGCAG AAGTGTGTG GCCTACTTTTGA 120 CCATAGTGGT GGCCCTGTTA TTCGTGGCTC CCGGGGTTCC TACACATCCT TCCCGATGGA 180 AGAAGGGGTT GGCCCAAAAAG GTCAGCAGC TGATGGGTTG GACCAAGAAA AACTATTTTG 300 TTATTGTGAT GCTTACTGCT GCTCTCCACG CGTTCAGTTC ATGTGTCATG TGCAACAAGGTG 360	(A) LENGTH: 324 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
CGAGTGAGCG GGCGGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGGA AACCAACATC CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA 120 CAGCAAGTTA TCGGCTTCAG TGGTCTGTCA GATGACAAGA ATTACAAGAA ACTGGAGAGG ATTCTAACAA AACAGCTTT TGAAATAGAC TCTGTAGATA CTGAAGGAAA AGGAGATATT 240 CAGCAAGCTA GGAAGCGGGC AGCACAGGAG ACAGAACGTC TTCTCAAAGAA AGGAGATATT 240 CAGCAAGCTA GGAAGCGGGC AGCACAGGAG ACAGAACGTC TTCTCAAAGA GTTGGAGCAG AATGCAAACT ACCCACACCT CGAG 324 (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS:	(ii) MOLECULE TYPE: cDNA	
AACCAACATC CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA CAGCAAGTTA TCGGCTTCAG TGGTCTGTCA GATGACAAGA ATTACAAGAA ACTGGAGAGG ATTCTAACAA AACAGCTTTT TGAAATAGAC TCTGTAGATA CTGAAGGAAA AGGAGATATT 240 CAGCAAGCTA GGAAGCGGC AGCACAGGAG ACAGAACGTC TTCTCAAAGA GTTGGAGCAG AATGCAAACT ACCCACACCT CGAG 300 AATGCAAACT ACCCACACCT CGAG 324 (2) INFORMATION FOR SEQ ID NO:435: (i) SEQUENCE CHARACTERISTICS:	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:434:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT 60 ATAACACAAA GAAGTAAGCA AATATGGCAG AAGTGGTG GCTTTGGCGT CTACTTTTGA 120 CCATAGTGGT GGCCCTGTTA TTCGTGGCTC CCGGGTTCC TACACATCCT TCCCGATGGA 180 AGAAGGGGTT GGCCAAAAAG GTCAGCCAGC TGATGGTTG GACCAAGAAA GACAGAGTGA 240 TAAGAATGAG TGACACCATG TTCTATCATT TTGTATTAGA TGCACACACACA GACAGAGTGA 240 TAAGAATGAG TGACACCATG TTCTATCATT TTGTATTAGA TGCACCAAAA AACTATTCTG 300 TTATTGTGAT GCTTACTGCT GCTCTCCACG CGTTCAGTTC ATGTGTCATG TGCAAAGGTG 360	AACCAACATC CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA CAGCAAGTTA TCGGCTTCAG TGGTCTGTCA GATGACAAGA ATTACAAGAA ACTGGAGAGG ATTCTAACAA AACAGCTTTT TGAAATAGAC TCTGTAGATA CTGAAGGAAA AGGAGATATT CAGCAAGCTA GGAAGCGGC AGCACAGGAG ACAGAACGTC TTCTCAAAGA GTTGGAGCAG AATGCAAACT ACCCACACCT CGAG	120 180 240 300
(A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT 60 ATAACACAAA GAAGTAAGCA AATATGGCAG AAGTGTGGTG GCTTTGGCGT CTACTTTTGA 120 CCATAGTGGT GGCCCTGTTA TTCGTGGCTC CCGGGGTTCC TACACATCCT TCCCGATGGA 180 AGAAGGGGTT GGCCAAAAAG GTCAGCCAGC TGATGGGTG GACCAAGAAA GACAGAGTGA 240 TAAGAATGAG TGACACCATG TTCTATCATT TTGTATTAGA TGCACCAAAA AACTATTCTG 300 TTATTGTGAT GCTTACTGCT GCTCTCCACG CGTTCAGTTC ATGTGTCATG TGCAAAAGGTG 360		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:435: GAATTCGGCC TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT 60 ATAACACAAA GAAGTAAGCA AATATGGCAG AAGTGTGGTG GCTTTGGCGT CTACTTTTGA 120 CCATAGTGGT GGCCCAAAAAG GTCAGCCAGC CCGGGGTTCC TACACATCCT TCCCGATGGA 180 AGAAGGGGTT GGCCAAAAAG GTCAGCCAGC TGATGGGTTG GACCAAGAAA GACTAGTGTG 240 TAAGAATGAG TGACACCATG TTCTATCATT TTGTATTAGA TGCACCAAAA AACTATTCTG 300 TTATTGTGAT GCTTACTGCT GCTCTCCACG CGTTCAGTTC ATGTGTCATG TGCAAAAGGTG 360	(A) LENGTH: 548 base pairs(B) TYPE: nucleic acid	
GAATTCGGCC TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT 60 ATAACACAAA GAAGTAAGCA AATATGGCAG AGGTGGTG GCCTTTTGGCGT TCCCGATGGA 120 CCATAGTGGT GGCCCAAAAAG GTCAGCCAGC TGATGGGTTC TACACATCCT TCCCGATGGA 180 AGAAGGGGTT GGCCAAAAAG GTCAGCCAGC TGATGGTTG GACCAAGAAA GACAGAGTGA 240 TAAGAATGAG TGACACCATG TTCTATCATT TTGTATTAGA TGCACCAAAAA AACTATTCTG 300 TTATTGTGAT GCTTACTGCT GCTCTCCACG CGTTCAGTTC ATGTGTCATG TGCAAAAGGTG 360		
ATAACACAAA GAAGTAAGCA AATATGGCAG AAGTGTGGTG GCTTTGGCGT CTACTTTGA 120 CCATAGTGGT GGCCCTGTTA TTCGTGGCTC CCGGGGTTCC TACACATCCT TCCCGATGGA 180 AGAAGGGGGTT GGCCAAAAAG GTCAGCCAGC TGATGGGTTG GACCAAGAAA GACAGAGTGA 240 TAAGAATGAG TGCACCATG TTCTATCATT TTGTATTAGA TGCACAAAAA AACTATTCTG 300 TATTTGTGAT GCTTACTGCT GCTCCACG CGTTCAGTTC ATGTGTCATG TGCAAAAGGTG 360	(D) TOPOLOGY: linear	
CTGCTGAAGA ATTTCAGATC TTGGCAAATT CCTATCAACG CCCTGGTGCA TTCACCACAA 420	(D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	

	TGCAATGGTG GATTATGATG AAAGCCCTGA GGTCTTTGATCCCGAGTTTC TTCCACTTTT CTGCCCAATG GAAATTTAC		486 546 548
(2) INFORM	ATION FOR SEQ ID NO:436:		
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: cDNA		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:436:		
TTATTCTGAG TTGGGGTCCC GTGTGTGTGT	TTCATGCCT AAAATGAAAT TCAGACAAAA TCACTGGCACTGTCTTCAC TTTGACTATT TGGGGGGCTT CTCTCAAGTCTGGCAGCAGAGAGAGAGAGAGAGAGAGAGA	CA CAGATGTGGG CT CAAGTCTACT CC AAAAATCTAA	60 120 180 240 300
(2) INFORMA	ATION FOR SEQ ID NO:437:		
(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: cDNA		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:437:		
CTGCCCACTC GATGTGCCCA TCTACAGACA CTAGAGCAAC GGTGTTCCCG	GATCCCCTCG GCCCCACGC CATATGACCA AAGTCACAC CCAATGGAAC CACCTTATCA TCTAACCTCA CTGGTGGCA CTCCCATCTC CTCTGCAAGT TCAGAAGCTG CCTCAGGAC GTGGCCTGGA ATTCTCCCTCC CAAACCACTT CCAAGGAAC CTGGCTCTCC AGGGTACAG ACAGCTACAG AGCCTGGAAAGT AGCAGCCTGA CCTCCAGGAA GGGACCCATG TGGAAAAGT CCATCCCTGA AGTGTTAGAG GAGTGCACGT CCCCTGCCC	AT GCCCTTCATT OF GGTCAGTCCC OF CCTTACTGAT AG CAGTGAGCTA CC CCAGTCAGCA	60 120 180 240 300 360 420
(2) INFORMA	ATION FOR SEQ ID NO:438:		
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii)	MOLECULE TYPE: cDNA		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:438:		
GAATTCCCCC	TTCATCCCCT AATTCAATTC TACACCTCCT TCTCACTCC	Th GOTTOON MOOO	6.0

120

180 240

AACGTGCTGG ACCACTTCTC GGAGCTGCGC AGCGTCGAGG GGCTGCAGGA GGGCTCTGTG

CTGCGTGTGG TGGAAGAGCC GTACACGGTG CGTGAGGCCC GCATCCACGT GCGCCATGTC CGAGACCTGC TCAAGAGCCT GGACCCATCC GATGCCTTCA ACGGGGTTGA CTGCAACTCC

TTGTCCTTCC TGAGTGTCTT CACCGACGGC GACCTCGAG

(2) INFORMATION FOR SEQ ID NO:439:

PCT/US98/06956

279

(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 351 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(b) Topologi: Timedi	
(iii) MOTERITE BURN DIV	
(ii) MOLECULE TYPE: cDNA	
(with grouping programme)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:439:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCA CCCAGCCTTC TTCTTTTCAT	60
TATAACCTTT ATACCACAGT AAGCTGTTGC ATCATTCAAA TGACTCTGCA TCCTATATTG	120
AATATTCTCC ATTATTCTCT AATATCTTTG GGGGTACCCA GGATTACAGG GTTCTGGGCA	180
TACATGTTAA TGCTTTTGCC AGGACTTTTC TTTTTATTCA TTGTCGTGAC CCATTGTCTT	240
TGCTTATATT TAAAGTTTTT GCTCTTGATA TCATTGGTTC TTTCCTAAGT CACTTTTCT	300
GGTAACTGCT TTGGAATGAA TCATACATAT CTCACTTACG GAGCTCTCGA G	351
\cdot	
(2) INFORMATION FOR SEQ ID NO:440:	
•	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 412 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:440:	
GAATTCGGCC TTCATGGCCT ACCAATACTC ATAATTAAAA GTTTTTCGTT GTCAAAACAT	60
TTTCACAGTT CAGGAATCAC AGTCCTATTT CATCTTTTGA AATAAAAGTT AAAGTCCATT	120
TTTCTTAAGC CTTATTATAC CATTATCCAA AAACACTACC TAGCATTCAT CTTAGTTTTT	180
CATATCTCCT TAGCAGATAG TTTAGTATAT TCCATTTGTC TTATTTGAGG TTTAAAAAAA	240
GTTGTGGAAG AAGTTTCTCA GGAGTTCAGC AAGCCTTTCC ATCTATCTTC TATTTTAAAA	300
GAATGTGATT TATTGTTTTT ATGAATAAAA TATACCTCGT GTGTTTCTCA TATGATGTTC	360
CATTACATTA ATCATCCATT AAGTAAATGT TTTTGTGCTG CAAAAACTCG AG	412
(2) INFORMATION FOR SEQ ID NO:441:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 292 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:441:	
GAATTCGGCC TTCATGCCTA GCCAGGAGGA GGAGGACCCT ATGAACAAAC TCAAGGGCCA	60
GAAGATCGTG TCCTGCCGCA TCTGCAAGGG CGACCACTGG ACCACCCGCT GCCCCTACAA	120
GGATACGCTG GGGCCCATGC AGAAGGAGCT GGCCGAGCAG CTGGGCCTGT CTACTGGCGA	180
GAAGGAGAAG CTGCCGGGAG AGCTAGAGCC GGTGCAGGCC ACGCAGAACA AGACAGGGAA	240
GTATGTGCCG CCGAGCCTGC GCGACGGGGC CAGCCGCCGC GGGGAACTCG AG	292
CAMPAGE CECARGETAC GEOACGGGC CAGCCGCCGC GGGGAACTCG AG	292
237	

***************************************		PC1/US98/00950	
	(2) INFORMATION FOR SEQ ID NO:442:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:442:		
	GAATTCGGCC TTCATGGCCT ACCGCCTCGC TGCCTGGACA CCTGTCCGTG CACTGAGCAG GACATCCGCG TCTGTGGCCC CTGGGACCCT GCCCCGACA GGTTTGTCCT TTTAGGTAGA GTGCCTGGTC CAGGTCATTG GAGGAGAGTC CCTCTGGCGT GTTCTAGAGA GGCCCTCCCG TCTAGGCTCG AG	GCCAGGCCTG 1 CACATGGCCA 1	60 120 180
	(2) INFORMATION FOR SEQ ID NO:443:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLEĆULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:443:		
	CTTTATGACA GCCATGAGCT TTTTCCGGTG CATTGCAATT GTTTTTCCAG TAATTTGGTT ACACAGAAAA AAGCCAGGTT TGTGTGTGTA GGTATTTGGA TTTGACCAGT TCTCCATTTC TAATGGCCAA ACCACAAAAA GATGAGAAAA GTGCTTTGAG CCCCCACTAC TCGAG	TTTTTGTGAT 1 ATAATACCAA 1	60 .20 .80
	(2) INFORMATION FOR SEQ ID NO:444: ,		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:444:		
	GAATTCGGCC TTCATGGCCT ACCTGCCTCC CTCCTTGCTT CTTGCTCTGC CTGCCTTCCT CTTTTTCATT CTTCTACTCT GCCCTATATG GAGGACAAAT GGTGCTAACC TTATTGGTGC CTGCCCCAGC CTACCCCAGG TGCAAGCAGA	GGACACCAGG 1	60 120 178
	(2) INFORMATION FOR SEQ ID NO:445:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		

- (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:445:

GAATTCGGCC	TTCATGGCCT	AGAAAGCCAC	ΔΑΑΓΤΤΤΤΔ	GTTTTTAACT	TCAAAGGCTT	60
			TAGAGTCAAA			
						120
			CAAGTAAGAA			180
TGAATTGTGC	ACTTCTACTG	ATGATGACTA	CACCAGAAGT	GATGTTATAC	GTACAGGCAC	240
TTGAACTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:446:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:446:

GAATTCGGCC	TTCATGGCCT	AGGGCTTATA	TTTTAACTGA	ACTATTATTA	AATAAAAACA	60
AAATAAAATC	TTATCATATA	GGTGTAATCT	GTTCTAAGGA	AAAAATCCTT	CTATCAAGAC	120
TAAACGTCTA	ACTGAATACA	GAATGACATT	TCATGCCTTA	AGGTCTCTGT	CCATGTTGTT	180
CCTTCTTTCT	ACTGTCCTTT	ACTGTATTAG	TTCAAAACAT	TCTAATTCAC	TCTCCAAAAC	240
CCAATTCAAA	CATCACCATC	AGAAAGTCTT	CCATGATGGG	CCAGGTGTGG	CGGCCCTCGA	300
G						301

- (2) INFORMATION FOR SEQ ID NO:447:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 150 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:447:

GAATTCGGCC TTCATGGCCT	AGCTGAAATG	CTTTCTATTG	GATACTATCT	GGGCATATTA	60
CTTCCTGTGG TTCACTGTCT	GGGTGACAGG	ATTCATAGAA	GCCCAAACTT	TAGCACCACG	120
CAGCATACCC TTGTAACAAA	GCCACTCGAG				150

- (2) INFORMATION FOR SEQ ID NO:448:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 226 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:448:

GAATTCGGCC	TTCATGGCCT	AATTTGATTT	TATTAGGTTT	AAATTGTATT	TCTTCAAATT	60
TCATAAACTA	TAGCATTTAT	CTCCATATTT	TTAATAAATG	ATCACAAATA	AATCACTGTT	120
AATATCTCCA	TTTACACTTT	TACAACTCCT	GCTATTGCTG	GATTTTTCAT	CCTATGATAT	180

226

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 453 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:449:	
GAATTCGGCC TTCATGGCCT AAGACTGGG GCATGTACCC CACCTACTTT CTGCACCTGG ACCGTGAGGA TGGGAAGAG GTAAGGTTGG TCTGGGCATG TTATCATCTA GGCTTTACAG CCCTTTGAAA TCCTAGGGGC TGAAATGTGA CTGGAAGTCT CATATCTACC GCTGACCTCT CAGTTCCTCA AAGAAACTGC CTTCGTGTCT GGTCTTGGC CATCTTTGTG TTTTCCAGTG CATCTTTGTG TGTGCACATA TGTGCGTTTG GGAGCTGACG CAACGGAGAG AGTCTGTGTG AGTGGCTCTC ATGACTGTGT GCAGACCAGA GGCTGAGTCT GGAATATGAC CTCATTCCAC TCCCCAAGGT GTTCCTCCTG GCGGAAGGA AGAGAAAGAA GAGTAAAACT TCCAATTACC TCATCTCTGT GGACCCCACA GACTTGTCTC GAG	60 120 180 240 300 360 420 453
(2) INFORMATION FOR SEQ ID NO:450: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:450:	
GAATTCGGCC TTCATGGCCT AAAAGCAAAT TAACTTGTTC TGAAAAGAAA GTATAGATTA ATTTTGTTTT CTGTTTAAAT TTTATCTCCT TGGTAAAGAT TTTTTTTTCC TGGGCAGAAA ACTTGGCATT TTTAGGCGTA GATACCTTAC CTTACAATGC CAAAATGAAT TTAATTCCAG TACTCAGGTT TTTCCCTTTA ACAGACTCTA TGTGTACCAG GCATTGAATT CTAGACCTGC CTCGAG (2) INFORMATION FOR SEQ ID NO:451:	60 120 180 240 246
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:451:	
GAATTCGGCC TCCATGGCCT AGTTTGGTGG GGTTGAAGTT GATGGCAAAC TCATGGGAGA CCTTCCAGTC TGGGGGTAAC TGGGCCCCGA ATCCCAGAGC TGGAAACATC TTATCACTGT CGTAGTCCTG AATGATCTGC CCAACAGCCC AGATGGCCGA CAGATATTCG TTGGTGCCCA TAGGGTTGAT ATAGTGCAAA GAGGAAGGGT CGAGGGGATT CCCGTTGGAG GCTGTAAAGT CTATTCCAAC GGTGAACATG AGCTGGCAGC CTCCCAGGAT GTAGTCAAGG AAGGAGTAGT CTCCGGTTTAT CTTGCAGGAT CGCAGGATGA TGATGCCCGA GTTTTTATAG TTCTTCTTCT	60 120 180 240 300 360
240	

GTTAAACCAA TTTAAAATAC ATTTAAAGAA TCACAGCTGT CTCGAG

(2) INFORMATION FOR SEQ ID NO:449:

TCCTCTGCTT CTTGGGGTTG ATGCACTCGA ACTCCAGCGG GACGCTGTCT CGAG

(2) INFORMATION FOR SEQ ID NO:452: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:452: GAATTCGGCC TTCATGGCCT ACACACTGAC TGACAGACCA CGGTATGCCT TGCACCACCC 60 TGGCTGCTGG GGTCCAAAGA GGGATCTGGT AGACCTGGGC TGGAATCTCA GCTTCACCAT 120 TTACCATCTG GGTGGCCAAT GGAGTGTTAC TTGGCCTCTC TGAGCCTCGG TTTTGCTCGT 180 CTCTGAAACA GTAAGATACC TCCCTTTGGC TGTTGTGATG AGGATGAAGG TTAGCCTATG 240 CCCAGTAGTA TGCCTGTCCC TTCATCGATG CCTGCTCATC TCACTCTTGC TCTGGAAACA 300 360 GAGGTGATCT CGAG 374 (2) INFORMATION FOR SEQ ID NO:453: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:453: GCGTCCGTCC GCCGCCACCA CCCACTCCGG ACACAGAACA TCCAGTCATG GATAAAAATG AGCTGGTTCA GAAGGCCAAA CTGGCCGAGC AGGCTGAGCG ATATGATGAC ATGGCAGCCT 120 GCATGAAGTC TGTAACTGAG CAAGGAGCTG AATTATCCAA TGAGGAGAGG AATCTTCTCT 180 CAGTTGCTTA TAAAAATGTT GTAGGAGCCC GTAGGTCATC TTGGAGGGTC GTCTCAAGTA 240 TTGAACAAAA GACGGAAGGT GCTGAGAAAA AACAGCAGAT GGCTCGAG 288 (2) INFORMATION FOR SEQ ID NO:454: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:454: GAATTCGGCC TTCATGGCCT AAGAAGTGTC TCCTGTATCC ACCTCTTCCT GGCCTCCCTT CCCCCACTTC CTGGTCCCTG TCCACTCCTC AGGTTGGTGC TCTCACTTCT TGAAAGCTCT AGGCACCCC GCCTCCCGCC AGGCTCCCCG TTGGCTCCTG GCAGGCCAGC TGAGAATGAA 180 CAGGAGATGG AGGCAGGCAG CCCAGGCTGC AGAGGTGAGG GATGTGGGGC CAGGCCCAGA 240 GGGCTCAGCC TAGAGGCTTC CAATCTCAGA TTCTCCTGCC TGTGGTCATC TGTTTGTCCA 300 TCACCCCAGG ACAGGGCAGA CAGAGGGGCA AAGCACTGGG GGCCCCAGAG CCTAGCTTCC 360 CCTCAGCCTG GGGGAAACTC GAG 383

- (2) INFORMATION FOR SEQ ID NO:455:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:455:

AGAGCACGTC	AATGCCATGA	GGGGCCTGCA	AAGCAGCAAG	GAGCTCAAGG	CTGAGCTGGA	60
CGGGGAGAAG	GGCCGGGACT	CAGGGGAGGA	GGCCCATGAC	TATGAGGTGG	ACATCAATGG	120
TTTAGAGATC	CTTGAATGCA	AATACAGGGT	GGCAGTAACT	GAGGTGATTG	ATCTGAAAGC	180
TGAAATTAAG	GCCTTAAAGG	AGAAATATAA	TAAATCTGTA	GAAAACTACA	CTGATGAGAA	240
GGCCAAGTAT	GAGAGTAAAA	TCCAGATGTA	TGATGAGCAG	GTGACAAGCC	TTGAGAAGAC	300
CACCAAGGAG	AGTGGTGAGA	AGATGGCCCA	CATGGAGAAG	GAGTTGCAAA	AGATGACCAG	360
CATAGCCAAC	GAAAATCACA	GTACCCTTAA	TACGGCCCAG	AATCTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:456:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 317 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:456:

GAATTCGGCC	TTCATGGCCT	AAATTTCATG	AAAAACAAAT	GGCTTAAACC	CAGGGAAGCA	60
AGGATTATAA	TTGATTTTTT	TGAGCAATGT	CTCTTTTGGT	TACAAAGTAA	AAGGTAAAAT	120
AAAAGTTTAA	${\tt AAGCATTTGG}$	AAAGAATGTT	CTTTGGTTTT	TTCACTCAGT	AACCTAAAGT	180
TTAATGACCC	TTTACAGTGC	TGATAAACAC	TTTAAATTTTT	GCAGTAGGCA	TTGCTAGTTC	240
AAATTGAAGG	AAGGTTGCCA	GGCTCATGCC	TATAGTCCCA	ACTACTTAGG	AGGCTAAGGC	300
AGGGGGACGC	CCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:457:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 510 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:457:

GAATTCGGCT	TCATGGCCTA	CTGCTCTTTG	GCTAAGGTGG	CAGTGTACCT	CTAGATCAAC	60
CTGGGCAACA	GTCACAAGGG	AGTGTGACTT	CTTGGCCATA	ATAAACTCAC	TTGATAGTGT	120
TTATGTTATT	AATCTGAATG	CAACAGAAGA	CAAAAGCACA	GGCATGCACA	CACACAGAAC	180
CCCAAACCAC	TAAAAACTAC	CTAAACACTG	ACTTAGTAAA	TAGTAAAAAG	GTAATGTTGG	240
GACTTTTAAA	CCTTGAATCC	ATTAGCCAGG	CTTGGGATGA	AAGGACCATC	TAAAATCATG	300
CTAGTCTAAA	CCATGCTCTT	CCACACAGCT	GTTTAAAAAC	CACTGGGTAT	GAGGAATATG	360
CTAGAAAGAA	ATGTTAAAAA	TAGATTGTTG	GCTCACACTT	ATTTTTCTAA	TAAATAGGAC	420
CATTATTACT	ACCAGGAAAG	TCTTATTTAT	TTTGCCTGAA	ATTGGCTTAA	AGAAAGTCTC	480

510

ATGACGGGAT GGGATGGGCC GGCACTCGAG

(2) INFORMATION FOR SEQ ID NO:458:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:458:	
GAATTCGGCC TTCATGGCCT AGCGGAAACA ACTGAAACTA ATGGAAGATA TGGATACAGT AATTAAACCC CGTCCTCAAG TAGTAAAACA AAAAAACAG CGACCAAAAT CTATTCACAG AGATCATATT GAATCCCCCA AAACACCAAT AAAGGGTCCT CCAGTCTCTA GCCTTTCTT GGCATCGCTG AACACGGTG ATAACGAGAG TGTACATTCA GGCAAGAGGA CGCCAAGATC AGAGTCTGTA GAAGGCTTCT TATCTCCAAG TCGTTGTGGC AGTCGAAATG GAGAAAAAGA CTTGGGAGAAT GCATCAACAA CTTCTTCAGT GGCTTCTGGA ACAGAATATA CAGGACCAAA GCTCTACAAA GAACACCTCG AG	60 120 180 240 300 360 382
(2) INFORMATION FOR SEQ ID NO:459:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 433 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:459:	
GAATTCGGCC TTCATGGCCT ACTGAGTCCC AGGCCGGGGC CCTGCCCCAG CCAGGGCTGG GACTCTGCAG TTGGGAGCTT GTCCAGGTGC CCCCTCTAAT GCTTTTCTCC TCCAGGACAC AGGGAGCCTC CGGAAGCACA GTAGTCCCCG TGTGTCACCT TAGGCTGACC TCTGTCCCCA GGGGTGACGT AATGCTGTCA CTGTCTTGAA TTCTTCATCG TTTAACAGGG AGCCCAGTGT TTTCACCAAA AGCAGAATTG GATTTTTTT TTAAGTCGAT AAATTTTTAC TCAAGGAATT CCATGTTGTG ATTTCTTCCA CTGTCCATCA AGGTCACTTT AGATCCTCTA AAGAGCTAGA GTCAAAAAGAT TTATCTTCAA GTTAGTCCTT TTTAATGAAA CCGATGCTTA TTTTAATCCA GTCAGCCCTC GAG	63 120 180 240 300 360 420 433
(2) INFORMATION FOR SEQ ID NO:460:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:460:	
GTCCGGCTAA AGTAATCCAG TCACCTGCTG CTGATACTAG AAGGGCTGAG ATGTCACAAA CAAATTTTAC CCCTGACACT CTTGCCCAGA ATGAAGGGAA GGCTATGTCT TATCAGTGTA GCCTTTGTAA GTTTCTATCA TCATCCTTTT CCGTGTTAAA AGATCATATT AAGCAACATG GTCAGCAAAA TGAAGTGATA CTGATGTGCT CAGAGTGCCA TATTACATCT AGAAGCCAGG	60 120 180 240
243	

TCGAG

AGGAACTTGA AGCCCACGTG GTGAATGACC ATGACAATGA TGCCAATATC CACACCGAAC

300

305

(2) INFORMATION FOR SEQ ID NO:461:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 563 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:	
GAATTCGGCC TTCATGGCCT AAGAAATATC AGTCCAAGCA AGAGGAATTA CAGAAAGATA TGCAAGGAAG TGCACAGGCA TTGGCTGAAG TAGTGAAAAA CACAGAGAAC TTCTTAAAAG AGAATGGTGA AAAGCTGTCA CAGAAAGATA AGGCTTGAT TGAACAGAAA CTTAATGAAG CTAAAGATAAA GTGTGAACAG CTTAATTATA AAGCAGAACA GTCTAAAAAAG GAGCTGGATA AAGTTGTGAC AACAGCAATC AAGGAAGAAA CTGAAAAGGT ACCAGCAGTG AAGCAGCTGG AAGAGAGCA AACCAAAATA GAAAACCTTT TGGACTGGTT GTCAAATGTT GACAAACACT CAGAAAGGGC AGGGACAAAA CACAAACAGG TAATCGAACA GAACGGGACC CATTTTCAAG AAGGTGATGG CAAGTCAGCA ATTGGAGAAG AGGATGAAGT TAATCGTAAC CTGTTGGAGA CTGATGTTGA TGGGCAAGTT GGAACCACTC AAGGAGAATCT GAATCAGCAA TATCAGAAAG TTAAAGGCCCA ACATGGACTC GAG	56 120 180 240 300 360 420 480 540 563
(2) INFORMATION FOR SEQ ID NO:462:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:	
GCGGCTGTGA AGATGGCGGC GGCTGCGTGG CTTCAGGTGT TGCCTGCAT TCTTCTGCTT CTGGGAGCTC ACCCGTCACC ACTGTCGTTT TTCAGTGCGG GACCGGCAAC CGTAGCTGCT GCCGACCGGT CCAAATGGCA CATTCCGATA CCGTCGGGGA AAAATTATTT TAGTTTTGGA AAGATCCTCT TCAGAAATAC CACTATCTTC CTGAAGTTTG ATGGAGAACC TTGTGACCTG TCTTTGAATA TAACCTGGTA TCTGAAAAGC GCTGATTGTT ACAATGAAAT CTATAACTTC AAGGCAGAAG AAGTAGAGTT GTATTTGGAA AAACTTAAGG AAAAAAAGAGG CTTGTCTGGG AAATATCAAA CATCATCAAA ATTGTTCCAG AACTGCAGTG AACTCTTTAA AACACAGACC TTTTCTGGAG ATTTTATGCA TCGACTGCCT CTTTTAGGAG AAAAACAGGA GCTCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:463:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(vi) SEQUENCE DESCRIPTION, SEQ ID NO.463.	

GTTGCACTCC	TGTTGTACTC	TTTTAGAGGT	GGAAAAGAGG	TGGATACTGA	GATCTAAGAG	60
GAAAGGATAG	TCATTCACGT	TCTGAGATAT	GCGCTCTCTC	TATTGTTCTC	GAACACAAAG	120
					AACATGGCTC	180
			TTTGGTTCTT			240
			GCAGACTATT			300
AGAGCAGTTC	ATTAAGCCCA	TTGCTTTCAG	TAATGTGGCC	TTGACCCCTT	CTGCTTCCCC	360
CTTCTCCCAT	GACGAGCTCG	AG				382

- (2) INFORMATION FOR SEQ ID NO:464:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:464:

GGACCTGCCT	CAAGGACATG	GGTGGACATA	TGGGCGGACT	CTCAGGGACA	ACCAAAGTGA	60
TGATCACACT	GACCGATGTC	AATGACAACC	CACCAAAGTT	TCCGCAGAGC	GTATACCAGA	120
					GCTAAAGATC	180
CAGACATTGG	AGAAAATGGC	TTAGTCACAT	ACAATATTGT	TGATGGAGAT	GGTATGGAAT	240
CATTTGAAAT	CACAACGGAC	TCTAAAACAC	TCGAG			275

- (2) INFORMATION FOR SEQ ID NO:465:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 488 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:465:

GTTCTAGACC	TACCCCGAAC	AGCCCCAAAC	AGTCAGAGTG	GCACAAAATG	ACAGTCTCCA	60
			AACTTGCTGT			120
			TCGGTAAGAA			180
AAAGGTTTTT	TGTATTGGTG	CAGGTCAGTC	AGTACACGTT	TGCCATGTGC	AGTTATCGGG	240
			AATTGGATGG			300
ACCCCCAGCC	AGGTTTGGAG	GGTGGCCGAG	CCTTCTTCAA	TGCTGTCAAG	GAGGGAGACA	360
CCGTGATATT	TGCCAGTGAC	GATGAACAAG	ACCGCATCCT	GTGGGTCCAG	GCCATGTATC	420
GGGCCACGGG	GCAGTCACAC	AAGCCTGTGC	CCCCGACCCA	AGTCCAGAAA	CTCAACGCCA	480
TCCTCGAG ·						488

- (2) INFORMATION FOR SEQ ID NO:466:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 300 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:466:

GAATTCGGCC TTCATGGCCT AGCCGCTGCG GTGAGCCTTG AAGCCTAGGG CGCGGGCCCG GGTGGAGCCG CCGCAGGTGC AGATCTTGGT GGTAGTAGCA AATATTCAAA CGAGAACTTT	60 120
GAAGGCCGTC TGAGCTAAAA AATAATGCTG ATTTGGCCTC ATCATATTTA TGAAGGAGGG	180
AGAAATAGAA GCATGTATAA TGTAGAAAAA CATATCTTAT CCTTATGTTT GCATATATTG	240
TTGAATAAAT ATAGTTTAAT GAATATGTTT TCTCACCTTT CTTTGCTTGC ACTTCTCGAG	300
(2) INFORMATION FOR SEQ ID NO:467:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:467:	
GTTCTAGACC TGCCTCGAGA TATGCCGGAA GGTTGCATGG CTGGTCCCAG GGCCAGCACA GGCCCGAGGC CGGGCTGCCT GGTTTTATTT TTATTTAACT TTATTTTCTG TTTATGAGT GTGTGTCCGC CCACCCCCAC CCCTTCAGT GTTAAGTGG GAGCCCTGGG GGAGCCTCC CTGCCTCCCA GCCTCTCCCA AGACCTCCCC CCTCGTCACC AGCCATCCCT CTGGACCAGG CAGAGGGCGG ACCGGCGCC CAGGGGCCTG AGGGTGGCTC GGGCCAGCCC ACCAGCCAAT GGACCCCTCC TCAGGCCGCC AGTGTCGCC TGCCCCTTTT TAAAACAAAA TGCCCTCGTT TGTAAACCCT TAACGCTCGA G	60 120 180 240 300 360 381
(2) INFORMATION FOR SEQ ID NO:468:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:468:	
GCTGTCCAAT TATACTGACC TGGCCATGAG CACGGTGAAG CAGACCCAAG CCATTCCATA TACTGGTCCC TTTAATTTGC TCTGTTACCA GCTGCAGAAA TTGACAGGTG ATGTGGAAGA ATTAGAAAATT CAAGAAAAAC CTGCTCTGAA AGTGTTCAAA AATATTACTG TAATACAAGA ACCAGGCATG GTGGTATTAG AATGGCTGGC AAACCCTTCT AATGATATGT ATGCAGATAC AGTAACAACT GTGATATTGG AAGTTCAGTC AAATCCCAAA ATAAGAAAAG GCGCAGAACT CGAG	60 120 180 240 300 304
(2) INFORMATION FOR SEQ ID NO:469:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:469:

GCGATTGAAT TCTAGACCAC CCCGCACTCC AGCCTGGGCA ACAGAGCAAG ACTCTTTCTT 60 AAAAAAAATTA AAAAAAAAAG GAGTACCCAT TGGGATAAAC CTCTTTGGAG GAGAGGACAT 120

AGTACAGAGG TTATA	ACTGCA ACATGGACCC AC	CAATAGCC ATGGATAACT	TAGTTGGGAT 180
TACCCCTGCC TGCT	GTTTAG ATACTTACAT GG.	ACACTAAT TTCTGCCCAT	CAACCTCCCT 240
CTCTTTCTCC TTCA	ATGCCC ATCAACCTCC CC	CTCTTTCT CCATCAATGC	TATGTTGGTT 300
TTTTTTATTT GCCA	TCTTGG CAGGTTTAGG GC.	AGAGCATG CTCGAG	346

- (2) INFORMATION FOR SEQ ID NO:470:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:470:

GAATTCGGCC	TTCATGGCCT	${\tt AGGATTTTCA}$	GCAAGAATTA	AATTATTCTG	CATATTGGAC	60
AGGGCCTATT	TAGAGGCCTG	CACATCTGTT	TTTATCCATT	TGTGTAACGA	TACCGTGTGT	120
GAAAGTAGGT	TCATGGATCA	GATGAGAAAA	GTCAATTCTC	TAAGATACCT	TCCCTTGTGG	180
CTGTGGATTC	TCACCTTGAT	GATTCAGCTT	TGTGTGATGG	AGGTGTCTGC	CAGAGAATTC	240
CTGGCCACCC	AGCTCCTCAG	CCCTCTGCCC	CCACCCCAA	TACACACACC	TTTCTCCATT	300
GTACCAGATG	CTGGTCTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:471:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 417 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:471:

GAATTCGGCT	TCATGGCCTA	CTTCATTCAC	TGTAAAACCA	ATAGCAAACA	ACGGAAGAGA	60
CGGGCAGAGT	TGAAGCAACA	AAGAGAGGAG	GAGGCAACAT	GGCAAGAGCA	GGAAGCCCCT	120
CGGAGAGACA	CTCCCACCGA	AAGTTCTTGC	GCAGTGGCCG	CCATTGGCAC	CCTGGAAGGC	180
AGCCCCCCAG	GTATCTCCAC	CTCCTTCTTT	AGGAAGGTGC	TGGGCTGGCC	CCTCAGGCTG	240
CCGAGGGACC	TGTGTAACTG	GATGCAGGGA	CTCCTGCAAG	CTGCTGGCCT	CCATATCAGG	300
GACAATGCTT	ACAACTACTG	CTACATGTAC	GAGCTCCTGA	GCCTGGGGCT	GCCACTCCTC	360
TGGGCGTTCT	CTGAGGTCCT	GGCAGCCATG	TACAGGGAAT	CTGAGGGCTC	CCTCGAG	417

- (2) INFORMATION FOR SEQ ID NO:472:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 331 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:472:

GAATTCGGCC	TTCATGGCCT	ACAAGAGGCA	GCTTATAGAC	AACCGCAAGC	TCATTGAGAC	60
GCAAATGGAA	CGGTTCAAAG	TTGTGGAACG	AGAGACCAAA	ACCAAAGCTT	ACAGCAAAGA	120
GGGCCTGGGC	CTGGCCCAGA	AGGTAGATCC	TGCCCAGAAG	GAGAAGGAAG	AGGTTGGCCA	180

GTGGCTCACG AATACCATCG ACACGCTCAA CATGCAGGTG GACCAGTTTG AGAGTGAAGT GGAGTCACTG TCAGTGCAGA CACGCAAGAA GAAGGGCGAC AAGGATCAGA AGCAGGACCG GATTGAGGGC TTGAAGCAGC AGCATCTCGA G	240 300 331
(2) INFORMATION FOR SEQ ID NO:473:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:473:	
GAATTCGGCC TTCATGGCCT AGAGGTGCTT CAGTGGTACA ATCAGTTAGC ACACAGTACG TATACAGCAG TATGTGTGTG AGAAATTATT TTAAATATAA GAATTATCAA AAATTATAAG AAGACCATCC CTTTAACTGA ATAGTTTCAC CAAAAATCAG AAAAATATGT AAGTGATACA TTTTGTTTCT TGGATATAGC AATGTACCAC CTTGCATAAA TGAGACTATT AAAATGATCA CCTGAGGTCA GAAGTTCGAG	60 120 180 240 260
(2) INFORMATION FOR SEQ ID NO:474:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 511 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:474:	
	60 120 180 240 300 360 420 480 511
(X1) SEQUENCE DESCRIPTION: SEQ ID NO:474: GAATTCGGCC TTCATGGCCT ACAAAGATTT GAGGAAAAGA GGTTCAAATT GGACCACTCA GTGAGTAGCA CCAATGGCCA CAGGTGGCAG ATATTTCAAG ATTGGTTGGG AACTGACCAA GATAACCTTG ATTTGGCCAA TGCAACTCTA ATGTTGGAGT TACTAGTGCA GAAGAAGAAA CAACTGGAAA ATAAGAGAA GCAACTGGAA CAGATCAGA AGGAGCTAAG GGAGATATTA AGAGAGTGGA AGAAATGAGT GGCTTATACT CTCCTGCTAG TGAGGATAGC ACAGTGCCTC AATTTGAAGC TCCTCTCCCA TCACACAGTA GTATTATTGA TCACACAGAA TACAGCCAAC CTCCAGGTT CAGTGGCATA TCTCAGACAA AGAAACACCC TTGGTATAAT	120 180 240 300 360 420 480
GAATTCGGCC TTCATGGCCT ACAAAGATTT GAGGAAAAGA GGTTCAAATT GGACCACTCA GTGAGTAGCA CCAATGGCCA CAGGTGGCAG ATATTTCAAG ATTGGTTGGG AACTGACCAA CAACTGGAAG CAGAATCACA TGCAGCCCAA CTACAGATTC TATGGAATT CCTCAAGGTT CAACTGGAAG AAAAAGAAA ATAAGAGAGA GCAACTGGAA CAGATCCAGA AGGAGCTAAG TGTTTTGGAA CAGATATTA AGAGAGTGA AGAAATGAGT GGCTTATACT CTCCTGTCAG TGAGGATAGC AACTGACCAC TCCACAGATA GTATTATTGA TCCACAGAAA ACAAGCCAC CTCCAGGTTT CAGTGGCAGT TCTCACACAGAA AGAAACAGCC TTCGTAAATT AGCACCTTAAGCT CAGTGGCAGT TCTCACACAGAA AGAAACAGCC TTGGTATAATT AGCACGTTAG CATCAAGACT GAAAACTCGA G	120 180 240 300 360 420 480
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:474: GAATTCGGCC TTCATGGCCT ACAAAGATTT GAGGAAAAGA GGTTCAAATT GGACCACTCA GTGAGTAGCA CCAATGGCCA CAGGTGGCAG ATATTTCAAG ATTGGTTGGG AACTGACCAA GATAACCTTG ATTTGGCCAA TGTCAATCTT ATGTTGGAGT TACTAGTGCA GAAGAAGAAA CAACTGGAAG CAGATCACA TGCAGCCCAA CTACAGATTC TTATGGAATT CCTCAAGGTT GCAAGAAGAAA ATAAGAGAGA GCAACTGGAA CAGATCCAGA AGGAGCTAAG TGTTTTGGAA ACAGTGCCTC AATTTGAAGC TCCTTCTCCA TCACACAGTA GTATTATTGA TTCCACAGAAA TACAGGCCAA CTCCAGGTT TCTCAGACAAA AGAAACAGCC TCCAGGTTT CAGTGGCAGT TCTCACACAGAA AGAAACAGCC TTGGTATAAT AGCACGTTAG CATCAAGACT GAAAACTCGA G (2) INFORMATION FOR SEQ ID NO:475: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 610 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	120 180 240 300 360 420 480
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:474: GAATTCGGCC TTCATGGCCT ACAAAGATTT GAGGAAAAGA GGTTCAAATT GGACCACTCA GTGAGTAGCA CCAATGGCCA CAGGTGGCAG ATATTTCAAG ATTGGTTGGG AACTGACCAA CAACTGGAAG CAGAATCACA TGCAGCCCAA CTACAGATTC TTATGGAATT CCTCAAGGTT GCAAGAAGAA ATAAGAAGAA ATAAGAAGAAG GCAACTGGAA CAGATCCAGA AGAAGACTAAG GGCAAAGAAGAA ATAAGAAGAAG AGAACTGGAA CAGATCCAGA AGAAGAAGAA ATAAGAGAGGA AGAAATGAAT GGCTTATACT CTCCTGTCAG TGAGGATAGC ACAGTGCCTC AATTTGAAGC TCCTTCTCCA TCACACAGTA GTATTATTGA TTCCACAGAA TACAGCCAAC CTCCAGGTT CAGTGGCAGT TCTCAGACAA AGAAACAGCC TTGGTATAAT AGCACGTTAG CATCAAGACT GAAAACTCGA G (2) INFORMATION FOR SEQ ID NO:475: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 610 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	120 180 240 300 360 420 480

CCTCCCTATG C	TGCACCTGA	ACTCTTTGAA	GGAAAAGAAT	ATGATGGGCC	CAAAGTGGAC	240
ATCTGGAGCC T	TGGAGTTGT	CCTCTACGTG	CTTGTGTGCG	GTGCCCTGCC	ATTTGATGGA	300
AGCACACTGC A	GAATCTGCG	GGCCCGCGTG	CTGAGTGGAA	AGTTCCGCAT	CCCATTTTTT	360
ATGTCCACAG A	ATGTGAGCA	TTTGATCCGC	CATATGTTGG	TGTTAGATCC	CAATAAGCGC	420
CTCTCCATGG A	GCAGATCTG	CAAGCACAAG	TGGATGAAGC	TAGGGGACGC	CGATCCCAAC	480
TTTGACAGGT T	AATAGCTGA	ATGCCAACAA	CTAAAGGAAG	AAAGACAGGT	GGACCCCCTG	540
AATGAGGATG T	CCTCTTGGC	CATGGAGGAC	ATGGGACTGG	ACAAAGAACA	GACACAGAAG	600
GCGGCTCGAG						610

- (2) INFORMATION FOR SEQ ID NO:476:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:476:

GGAGATTGGC	CACCTCCAAG	ATATGGTAAG	GAAAAGTGAA	CAAGGTCTTG	GCTCTGCAGA	60
AGGACTTATT	GCTAGTCTTC	AGGACTCCCA	GGAAAGGCTT	CAGAATGAGC	TTGACTTGAC	120
TAAAGACAGC	CTAAAGGAGA	CCAAGGATGC	TCTATTAAAT	GTGGAGGGTG	AGCTAGAACA	180
AGAAAGGCAA	CAGCATGAAG	AAACAATTGC	TGCCATGAAA	GAAGAAGAGA	AGCTCAAAGT	240
GGACAAAATG	GCCCATGACT	TAGAAATTAA	GTGGACTGAA	AATCTTAGAC	AAGAGTGTTC	300
TAAACTTCGT	GAAGAGTTAA	GGCTTCAACA	TGAAGAGGAT	AAGAAGTCAG	CAATGTCTCA	360
ACTTTTGCAG	TTGAAAGATC	GAGAGAAAAA	TGCAGCAGAG	AAACTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:477:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:477:

GTATGCCTGT	TCCAGACCAG	CCTTCATCAG	CCTCAGAGAA	GACGAGTTCC	CTGAGCCCCG	60
GCTTAAACAC	CTCCAACGGG	GATGGCTCTG	AAACAGAAAC	CACCTCTGCC	ATCCTCGCCT	120
CAGTCAAAGA	ACAGGAATTA	CAGTTTGAAA	GGCTGACCCG	AGAGCTGGAG	GCTGAACGGC	180
AGATCGTAGC	CAGCCAGCTG	GAGCGATGCA	AGCTCGGATC	CGAGACTGGC	AGCATGAGCA	240
GCATGAGTTC	AGCAGAAGAG	CGGATACTCG	AG	•		272

- (2) INFORMATION FOR SEQ ID NO:478:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:478:

GAATTCGGCC	TTCATGGCCT	ATGCGTGGGG	GTGGGGGGC	AGGCTAGAAA	GGAGCCCTCC	60
CTCCTCGGGG	TGTCTAGGGT	GTGCTGGCCA	CTGGAAGATT	GGAGTCGCTG	ACCCAGTGCT	120
GACCCTGACC	CTTGGCTGGG	TCCACTCTGC	AGACTCCACC	TGAGGAGACC	CACCCAGGGT	180
GAAGCTCGGT	GCCCAGGCCT	GAACTGAGCC	CGGCCGGGTG	CAAGGGCTGA	GGTGTGAGGT	240
CGGCCCAGGC	CTCTTCCCAG	GCCTGAGGGT	GGCTACAGCT	CGAG		284

- (2) INFORMATION FOR SEQ ID NO:479:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:479:

GAATTCGGCC	TTCATGGCCT	ACTAAATTTT	CCAAAACGTT	GATTTGCATA	ATACAGTGGT	60
ATGTGCAATG	${\tt GATAAATTGC}$	CGTTATTTCA	AAAATTAAAA	TTCTCATTTT	CTTTCTTTTT	120
TTTCCCCCCT	GCTCCACACT	TCAAAACTCC	CGTTAGATCA	GCATTCTACT	ACAAGAGTGA	180
AAGGAAAACC	CTAACAGATC	TGTCCTAGTG	ATTTTACCTT	TGTTCTAGAA	GGCGCTCCTT	240
TCAGGGTTGT	GGTATTCTTA	GGTTAGCGGA	GCTTTTTCCT	CTTTTCCCCA	CCCATCTCCC	300
CAATATTGCC	CATTATTAAT	TAACCTCTTT	CTTTGGTTGG	AACGACCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:480:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 263 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:480:

GAATTCGGCC TTCATGGCCT	ATTAAAAGAA	TGTTCTTTCA	TTAAAAGACC	AAAAAGAAGT	60
TAAAACTTAA ATTGGGTGAT	${\tt TTGTGGGCAG}$	CTAAATGCAG	CTTTGTTAAT	AGCTGAGTGA	120
ACTTTCAATT ATGAAATCTG	TGGAGCTTGA	CAAAATCACA	AAAGGAAAAT	TACTGGGGCA	180
AAATTAGACC TCAAGTCTGC	CTCTACTGTG	TCTCACATCA	CCATGTAGAA	GAATGGGCGT	240
ACAGTATATA CCGTGTTCTC	GAG				263

- (2) INFORMATION FOR SEQ ID NO:481:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 379 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:481:

GGAGCAGGAA	GAAATGCAAG	AGGAGATGGA	GAAGCTGCGA	GAGGAAAACG	AGACTCTCAA	60
GAACGAGATC	GATGAGCTGA	GAACCGAGAT	GGACGAGATG	AGGGACACTT	TCTTCGAGGA	120
GGATGCCTGT	CAACTGCAGG	AAATGCGCCA	CGAGTTGGAG	AGAGCCAACA	AAAACTGCCG	180
GATCCTGCAG	TACCGCCTCC	GCAAAGCCGA	GCGCAAAAGG	CTCCGCTACG	CCCAGACCGG	240

GGAAATCGAC GGGGAGCTGT TGCGCAGCCT GGAGCAGGAC CTCAAGGTTG CAAAGGATGT ATCTGTGAGA CTTCACCATG AATTAGAAAA TGTGGAAGAA AAGAGAACAA CAACAGAAGA TGAAAACGAG AATCTCGAG	300 360 379
(2) INFORMATION FOR SEQ ID NO:482:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:482:	
GAATTCGGCC TTCATGCTTT CTAGGCAAGA GGTCATCAGA AGATTGAGAG AAAGAGGAGA ACCAATCAGA CTATTTGGAG AGACTGATTA TGATGCTTTT CAACGTTTAA GGAAAATAGA GATCCTCACA CCAGAAGTTA ACAAGGGATT GAGGAATGAT TTGAAAGCAG CCTTGGATAA GATTGATCAG CAGTACCTCA ATGAAATCGT CGGCGGTCAG GAGCCTGGAG AGGAAGACAC ACAGAATGAT CTGAAAGTTC ATGAGGAAAA CACCACAATT GAAGAGTCAG AGGCCCTCGA G	60 120 180 240 300 301
(2) INFORMATION FOR SEQ ID NO:483:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:483:	
TGGTCTCCAG AAATGCTTTG GGTTCATCTT TCATTGCTGC AAGGAACTTC CATGCCTCTA ACACTCATCT TCAAAAGACT GGGACTGCTG AGATGTCCTC TATTCTTGAA GAGCGTATTC TTGGAGCTGA TACCTCTGTT GATCTTGAAG AAACTGGGCT ATCTCGAG	60 120 168
(2) INFORMATION FOR SEQ ID NO:484:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 452 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(A) LENGTH: 452 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
(A) LENGTH: 452 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

- (2) INFORMATION FOR SEQ ID NO:485:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:485:

GTTTGTAAAT	CACCTGATGA	TGGTGATATA	GCTGTGGCCA	ACGAAATGTC	AAGGGAAGTC	60
TGCTGGGGAA	GGTAGACGTA	GGATAGGAGT	ATGGGAAAAA	ATTATTCACT	CAAAAGCATG	120
ATGCACAGAG	GAGCTATGAT	CTTTTCTTGT	TTTCCTCACT	GGATGTTGTC	ATGTCTGTAT	180
			AACCATGAAA			240
			AATCCGAGAT			300
TGATGTTAAA	AACTTAAAAA	ACTCCAGAAC	TCTCTTACCC	CTGGTGCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:486:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 420 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:486:

GAATTCGGCC	TTCATGGCCT	ACTCAGCTGG	AAGCTTTACT	CCCTCCTCGA	CAGAAAGTGA	60
GGATTACAGA	TGACATGGAT	CAGGTGGAGC	TGAAGGAGTT	TTGTCCCAAT	GAGCAGAACT	120
$\tt GGCGTCAGCA$	CAGGGAGGCC	TACGAGGAGG	ACGAAGACGG	GCCCCAGGCT	GGAGTGCAGT	180
GCCAGACGGC	ATGACGTGGT	GCGGGGCAGC	GTGGCCCCAC	CGGACTAGCA	CATGATGAAT	240
GTAAAGTTGG	CACAATGAAA	ATGACATCGC	TTTAATGGCC	TTGTGTTTGG	GATGTCCTGT	300
			GTCTTTTTGG			360
TAAGTTATAG	CTTAATTTAT	ATTTAAATGT	TTTAAGTATA	AATCACCTCT	AGGCCTCGAG	420

- (2) INFORMATION FOR SEQ ID NO:487:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 318 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:487:

GGAGTGTCAA	GAATAACCGC	TCAGGTTGAG	TGTAAAAATA	TTTTATGGTC	CCATCAGCAT	60
CAACCTGCCT	TAATGCTTCT	TTGGTTGTCT	CTTCAGCTAG	TTCTTATTTT	ACAGCACATG	120
ATATATGAAG	TGATTTCACA	CCATGCCCAA	GATACGGGCC	ACCCACCAGC	TACATGGCAT	180
GATGACTCTG	CAGGCCGAAC	GGCAGCCTTG	ATAATTATAA	GGCCATGGGT	AATAGCCCCC	240
CAGGGGTTCA	CAGATCTTCT	GGCAGTGGGT	GTAGCTCCGC	CTACATTCTA	TACAACAGAT	300
TCCTTCGCCT	GCCTCGAG					318

(2) INFORMATION FOR SEQ ID NO:488:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:488:	
GAATTCGGCC TTCATGGCCT AGGTGTTTGC TTTAAGGAGG AATAGAAAAA TCAGGTGGTC ACTACTACAA GGGAAAGGGG AATGTGGTTT CAAAAAGGGT TTTGCCTTAT TTATTTTAT AGTAGATACT TATTAATCAA ACATTTAAGA GCAACTCAGT AAGGTGTTGC AATTCTGAGT CTGTTCTTCAA GACTAGGTTT ACTGCTTGAC ATTAGAGGTT TACTTCATCT CCCTCCAAGG TCACTGAAGT TTTCATAAC TATTTTAACA GATATTGCAA TAAATGTACA GTAATTTAAC GATATTTAAC GTAGATTT TCTTATTAT ACAGATAATG CTGCAATGAA TCTTTATTTA TATAATACAC TTTTATCCAG TTGTCATTTT TCTTTTGTCT TATATTCTCA CATGGAA	60 120 180 240 300 360 420 480 487
(2) INFORMATION FOR SEQ ID NO:489:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:489:	
GCGATTGAAT TCTAGACCTG CCTCGAGACA AAAACTGTGA ATAGTGAGTG ATTTAAAAAA AAAAAATAAA CTGAAAGGAA AATTGTTGAA TGTTTGAATC TTGCCTAGTC CCCTCACCCC CAAGGCTGGC TTCTAGAGTT AAGCTCGAG	60 120 149
(2) INFORMATION FOR SEQ ID NO:490:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:490:	
GCAAATTTTG GAAGATTTAG ACCATTATTT CTCAAAATAT TTCTTACCTG CTCTCTCCTC TTTCTCCCAC TCCTCCCAT CACCTTCTGG CACTTCCATT GTTCATATAT TGATATGCTT AATGATGTTT CTGAAGATTT ATTCATTTTT CCTTTATTCC TTTTTATTCT GTTCCTCAGC CCAGATCATT TCAATGCACA TATCCTCAAG TTTGCTGATT CTTCATTTC CTGCTCAGAT CTGCTGCTGG CCCCTCGAG	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:491:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 320 base pairs(B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:491:

GAATTCGGCC	TTCATGGCCT	ACAAATGTTT	AATCAGAGAC	TCATATTCAC	CTTTAAGTAA	60
			AGCATTCTGC			120
			AAGCTAGAGG			180
			CCTAAAATAG			240
			TGCACAAAAT	GAAAATGTTA	AAAAAACAT	300
GTAGCCTGCT	AACCCTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:492:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 224 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:492:

GAATTCTAGA	CCTGCCTCCA	GCCACTTCAA	ACCTTTGGTG	ACCAAAGTGG	GGTAAAAAACA	60
AGCACCTGCG	TGCGTTGTGG	TTATTCTATG	CTCTCCAATA	TATATAAATT	TTAAGAAGTT	120
TTTCTTGAGG	TGGTCAGTTC	TTAAACCAAG	AAAGTGGTAG	TAGTTGATTT	TAATTAGTGT	180
AAAGTTGTCT	TCGTAACTTC	CGTGTTGGTT	GGAAATAGCT	CGAG		224

- (2) INFORMATION FOR SEQ ID NO:493:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:493:

GAATTGCCTT	CATGGCCTAC	CGAATCAGAC	AGAAGAAAGC	CCAGGGCTCC	ACTTCTTCTA	60
CAAGGTTGCA	TGAGCCCGAG	AAGAATGCCA	GAGAAATAAC	ACAGGACACA	AATGATATCA	120
CATATGCAGA	CCTGAACCTG	CCCAAGGGGA	AGAAGCCTGC	TCCCCAGGCT	GCGGAGCCCA	180
ACAACCACAC	GGAGTATGCC	AGCATTCAGA	CCAGCCCGCA	GCCCGCGTCG	GAGGACACCC	240
TCACCTATGC	TGACCTGGAC	ATGGTCCACC	TCAACCGGAC	CCCCAAGCAG	CCGGCCCCCA	300
AGCCTGAGCC	GTCCCTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:494:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 504 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:494:

GAATTCGGCC	TTCATGGCCT	AGGTAGCTCT	ATGGTTTTCC	TCGCGTTCTT	GAGTCGGGAA	60
ATGGCCGCTG	${\tt TGTGGTTGCA}$	ACGGAGATAA	ATTCCCGGAA	CCGCGATTCG	GCGTGTCAGG	120
AATTCGAATT	TAGAGTTTAA	TTTCTCAGAG	CATTCTCTCC	AGGAAGAATT	TTTACAGTAT	180
CTCAAAGACT	TCACTTGACT	TCTTGATCCT	GCATAAAACC	AAGGAGAAAA	GAAATGGGTC	240
GCTCCAATTC	TAGATCACAT	TCTTCAAGGT	CAAAGTCTAG	ATCACAGTCT	AGTTCTCGAT	300
CAAGATCAAG	ATCTCATTCT	AGAAAGAAGC	GATACAGTTC	TAGGTCTCGT	TCCAGAACAT	360
ATTCAAGGTC	TCGTAGTAGA	GATCGTATGT	ATTCTAGAGA	${\tt TTATCGTCGC}$	GATTACAGAA	420
ATAATAGAGG	AATGAGACGA	CCTTATGGGT	ACAGAGGAAG	GGGTAGAGGG	TATTATCAAG	480
GAGGAGGAGG	TAGAAACCCT	CGAG				504

- (2) INFORMATION FOR SEQ ID NO:495:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 190 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:495:

GAATTCGGCC	TTCATGGCCT	ACCAACTTAG	TCATTTGAAG	CCCAAGAGTC	TAATTTTATA	60
TGCCCTGCCA	ATGTCCTCAT	CTATTGCAGA	ATGNATAATT	ATCTATTTGT	TTTGGACTAT	120
ATGTTACAAA	AATTTAAAAC	ATAAGATCCT	CTCTCTATAT	TTCATTATTG	GTGAACCCAC	180
ATTGCTCGAG						190

- (2) INFORMATION FOR SEQ ID NO:496:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:496:

GAATTCGGCC	TTCATGGCCT	AGGTAAGAAA	ATCGTCAATG	AATTGTGGCA	TGACCAGGTG	60
GAGAGTAAGT	GTCATAAAGA	GGGATAGTGG	ATAGTATAAT	GTCAGGCACC	TCAAAGGAAC	120
TGGGCAGGGA	GTTAGGGAGT	AAAAAGGGCG	GTGGTCTGGA	AGCAGAAAGG	AGGAGCAGTG ·	180
GTCCAGTAGG	GGCTGCAGAG	CTGCAAGGCT	TTGCCTCAAT	CCTGTCAAAG	GCAACTTCAA	240
GCTTTCCAGG	AGCCATACTC	CTTCATTTGT	TCATTACTTT	CTAGATTAGG	AAATCACCAC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:497:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 334 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:497:

GAATTCGGCC TTCATGGCCT AGGTGGACCA ATGTACAGCA CTCAGGTTCA TGGCCAACTG	60
GGTGGACTAT TTCAGTACTC TACAGGTGCC TCAGTGGAGG GAGAGCCCAT TGTCCAGGTG	120
CTTCCTGGGA CAATACCAGA GCGCTCTGGG AAAAGGGCTG CTTGCAGGCA CGAGGGCTCA	180
CAATGAGCCA TGGTGGGCCA CCGCCACGGC CCATGCAGCC TAATAGCAAG CCAAGGCAGG	240
AAGCTGTGAG AGCTGCTCAA CAGTGCCCCC TAGGGACTGG TTACTTCCTG ACCCTAACCT CCGGAAATCT GCTGTCAAAG GCAGATTTCT CGAG	300
CCGGAAATCI GCIGTCAAAG GCAGAITICI CGAG	334
(2) INFORMATION FOR SEQ ID NO:498:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 160 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:498:	
GAATTAGGGG CTTTTTCATC CTTAGGAGAC CTGAGTCCTC AAGAAAACCC TTTTCTGGAA	60
GTATCTGCTC CTTCAGAACA TTTTATAGAA AAGAATAATA CAAAACACAC AACTGCAAGA	120
AATGCCTTTG AAGAAAATGA TTTTATGGAA AACACTCGAG	160
(2) INFORMATION FOR SEQ ID NO:499:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 276 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
AND MOVEMENT THE TAXABLE PARTY	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:499:	
GAATTCGGCC TTCATGGCCT ACTCGATCTC CTGACCTCGT GGTCCACCCG CCTCGGCCTC	60
CCAAAGTTCT GGGATTACAG ACGTGAGCCA CCGCGCCCGG CCTTGTCCTG GATTTTTTAA	120
CCAAGCACTA TTATTTATAG TTGCGTTAAA ATAAATAGGG ATGGGTTTGA TAAGTCACCA CTTGGTGCTT TAAATTCTGC CATCATCTTT TCTAGGAGTG TAAGATATAG AGATACACAT	180 240
AAGCAGAAAA TTTTTTTTAA CATGAGGATA CTCGAG	276
THE CHARLES THE CONTROL OF COMMENTS OF COM	270
(2) INFORMATION FOR SEQ ID NO:500:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 256 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(11) NOT TICKE IT THEN THE TOTAL	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:500:	
GAATTCGGCC TTCTGGCCTA GACCTGCCTC TGATATGTAC TTGGTTTTTA AAAACCCATT	60
TTGTTCTCTC TTGTTTCCTC TCTATTTCAG CCTAGTATCA GAAGGCCAGG CGAGACTGCA	120
ACACTGCTCA TCACCCCGCG GCGTGATCCC TGCTCTTAGG TGCTGGGCAG AGGGGAAGGG	180
TGGTCAGGGT GAGGATGGTG AGGGAGGGCT GGTGAGGGGC TCAGAGGAAT ACTTGGAACA	240

256

ACAGCAGTGT CTCGAG

- (2) INFORMATION FOR SEQ ID NO:501:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 635 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:501:

GAATTCGGCC	TTCATGGCCT	AGTGGTTTTG	TTGTTGTTGT	CGGAGACAGG	GCCTCGCTTG	60
${\tt GTCTCCCAGG}$	CTAGAGTGCA	GTGGCATGAT	CACGACTCAC	TGCAGTCTCG	ACCTTCTGGG	120
CTCAAGTGAT	CCTCCTGTGT	CAGCCTCCCA	CACAGCTGGG	ACTACAGGCA	CATGCCACCA	180
CATCCAGCTA	AAAAAATTTA	CATTTTTTT	GTAGAAATAG	GGTCTTACCA	TGTTGCCCAG	240
${\tt GCTAGTCTCA}$	AATTCCGGGG	CTCAAGCAAT	CCTCCCACCT	CACCTTCCCA	AAGTGCTGGG	300
ATTACAGGCA	TGAGTCACCA	TACTTGGCCC	GAGTGAGCCA	AGATTGCACC	ACTGCACTCC	360
AGCCTGGGCT	ACAGAGCAAG	ACACTATCTT	AGATCCNNAA	AGGAAAAAA	AAAAAGAAGG	420
AGAAAGAACC	AGAGAAACAT	AAGGAAGAGT	GAGAGGAAGA	AAGAAAGATG	CAATTTGGGA	480
AGAAATGAAA	AAGAAATGAA	TAAAGAATAA	AATAATGTAA	CGGTCAATAA	ATAGGACTTG	540
${\tt TGAATGGAGG}$	CCTTTAGGCC	AAAGGCTATG	ATTAATTTCA	AGCTATGTTA	CTGAAGTCCA	600
TAAACAAAGG	ACTCAGATCT	AAATGGGTAC	TCGAG			635

- (2) INFORMATION FOR SEQ ID NO:502:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 452 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:502:

GAATTCGGCC	TTCATGGCCT	ACCCGTAGAA	ATCCCCCTTT	CTCTAATAGC	GAGGCTCTAA	60
CCACACAGCC	TACAATGCTG	CGTCTCCCAT	CTTAACTCTT	TGCCTTTGCC	ACCAACTGGC	120
CCTCTTCTTA	CTTGATGAGT	GTAACAAGAA	AGGAGAGTCT	TGCAGTGATT	AAGGTCTCTC	180
TTTGGACTCT	CCCCTCTTAT	GTACCTCTTT	TAGTCATTTT	GCTTCATAGC	TGGTTCCTGC	240
TAGAAATGGG	AAATGCCTAA	GAAGATGACT	TCCCAACTGC	AAGTCACAAA	GGAATGGAGG	300
CTCTAATTGA	ATTTTCAAGC	ATCTCCTGAG	GATCAGAAAG	TAATTTCTTC	TCAAAGGGTA	360
CTTCCACTGA	TGGAAACAAA	GTGGAAGGAA	AGATGCTCAG	GTACAGAGAA	GGAATGTCTT	420
TGGTCCTCTT	GCCATCTATA	GGGGCGCTCG	AG			452

- (2) INFORMATION FOR SEQ ID NO:503:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:503:

GAATTCGGCC TTCATGGCCT ACAAAATTGT CTTGACATAA GTAATTTGGG TATGCTGTAT 60
AAAGGCTTCT AAGAATTAAG AAACATGGCC CGGGTTGCAA ATTTTAATGC ATGACTACCT 120

PCT/US98/06956

	CTGGTCATGA GTGGTGATTT TCAGCTTTTT TGGTCTTAAC CCACTTAGGT CTCCTTATCT CACCTATACC ATCCAGCATC CTCGAG	240 286
(2) INFORM	ATION FOR SEQ ID NO:504:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 424 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:504:	
AAGTAAACTA GTTCCTAATT AACACTAGCC AATCAATTAG CTATGAATAT	TTCATGGCCT AGAGGGGTTT AGGATTCAAA GCAAAGGGGA GACAGCTACT CAAAATAATT GCTAAACTGA AAATTGTATA AAGTGTACTG GACAGATGAT CTTATCCATG AAATATTTC TGCCTTCTTA GAGGAAATAG CACCTGACAC ACATTGTAGG TGATCAATCA GCACATGTCT AAATAAATTA ATTAAAAAAG AAATTCCACT GAAAAATTCTT CTTAAATATA ACCAACTTCA TTATGACAAG AGAGCTTACA TACATGTTAT ATATCAATAT GTGAGTAGAT AAAGAATGAA TGTTGGATTT TTTATTGTTT TTGTTCTTGT TTTGGAGATG GGGTCTCACT	60 120 180 240 300 360 420 424
(2) INFORM	ATION FOR SEQ ID NO:505:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:505:	
TTCTTTCCCA TCTGCTTCCT	GTTTTCAGGT TCTTCCTAGC TCGGGGCTTT TAAATTTTGA AATCTAAACA CCATCCTTTT TGACTGTTGA CCTTGGTTTT CTCTTCTAAG TTTCTGTCCC TACTTTTTTT CCTTTTGAA TTCTATCTTT ATCTGTCTTT TGTTCACTTT ATATGGATCT CGAG	60 120 180 204
(2) INFORM	ATION FOR SEQ ID NO:506:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:506:	
CAGAAATGTT TTCTCTAAAA	TTCATGGCCT ATAGGCCATG AAGGCCGAGA TGTACAGTAA TAAGTATGCA AGATTATTTT TGAAGATGTG GAGAAACTAC TGTTATTTTT GCTTATATTC ATTCACTAAA TGAATAACAG TTATTGGTTT TGCTATTCAA GATAATTATA TTATAGCTAA TCTTCACATG AACTCGAG	60 120 180 218

- (2) INFORMATION FOR SEQ ID NO:507:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:507:

GAAGTTTAAC	ATTTCAACTG	TTGGTAAAAT	CTCCCTGGTG	CCACCTTGTC	GCACCCCCT	60
GTTATGAGGC	ACAGTTAGTG	GGTTTATGAG	${\tt AGGTTTGTTC}$	AGTGAAGCTC	CTGCCACTGT	120
AGACCTAAAT	GTTTCTCTCC	CTGTTGAAGT	GACCTGCCTT	CCTCTTTAGT	ACCTAACACA	180
GTTGGCAAAG	AGCATGGCTA	ACTCAAACCC	${\tt TTTTCTTTGG}$	GGGCAGGCTT	CCCTTTCTCT	240
CTGGCAGGTA	TATTAAAAAA	TTACAAAATA	${\tt GTAAATTTGC}$	CAAATTTTTC	TTGGTGTGTA	300
GCAAGGCATA	AAGACTGAAA	AATATCTTAT	GAATTAGTTC	ACTTCCCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:508:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 283 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:508:

GAATTCGGCC	TTCATGGCCT	AAAATGATAC	AGTGTGCAGA	ACTGGACCCA	GTAGGGAATG	60
ATAAAATGTA	CAGATGTGCA	GAACAGGACT	TGGTAGGACT	CAGCAGAGAA	AACAGGAGGA	120
GAGATGAAAA	TGATATGGTG	TGCAGAACTG	GACTCAGTAA	GGTGCGGAAA	GGGGAAGGAT	180
TCTGACAGAA	TCCAGCACAA	AAACAGAGAG	GGTGCAGAAA	AAGAGATTTG	GTCACTTAGA	240
CGTGTGGAGT	TGGAGGAGCC	TGTGGGAAAT	CCAGGATCTC	GAG		283

- (2) INFORMATION FOR SEQ ID NO:509:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 325 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:509:

GAATTCGGCC	TCATGGCCTA	CTCTCCTTTC	TTAACTTGTG	TACTTGGGGG	CACTTTTGAT	60
TTTGGTCCCA	CATCATTGAG	GAAGCTGGCC	CAGAGTTCGT	CCTCCTTCTT	TTTCCTGGCA	120
TCCTCTGATC	CAATGCCTTT	TTCCTGCTCT	GCAGCGTCAT	CTTCCTCCTC	ACTACTGCTT	180
CCCTCAGATT	CTGAATTGGC	ATCCTCCTCT	TCCTCTTCTT	CTAATGAGAG	GCCACCTTGT	240
CTTCTCTTCC	TGGCTGGAAT	GCTCTGGGCC	TTTCTTTTTT	TCCCTTGGGT	TTTCTGTGTC	300
TGCTCTTCAC	CATTAGGCCA	TGAAG				325

- (2) INFORMATION FOR SEQ ID NO:510:
 - (i) SEQUENCE CHARACTERISTICS:

	1 C1/0590/00930	
(A) LENGTH: 281 base pairs		
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:510:		
GAATTCGGCC TTCATGGCCT AGACAGGAGG TCATTGGGGA TTTTAGAAGG TACATTCCA TTAAGCTTCA CGATATCCCA CAGGTCCATT CTGTGTGAAA ATTTCCTGTT CTCATGCTTC ATTTTTTCT TTTAGTAATA TTCCTAATTG TATTTCTTTT CATTTACTT AATTATGTTA TATTAAGATA TCATGTGTAT TACTTTTGGG CTTCAAATGA GTGACCCCAC TCAGACTCGA G	TGGTCTAAAA 12 TGTAAAATAG 18	2 (3 (
(2) INFORMATION FOR SEQ ID NO:511:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:511:		
GAATTCGGCC TTCATGGCCT AATTCCCTTG ACTCAAGACA GCTAACTTCA TGTTTTAAAC CTTTGTGC TGGTTTATAA AATAATGTGT GTAATCCTTG GATACCAGAC TGTTTCCCGT GGTTGGTTAG AATATATTTT GTTTTGATGT ATGTTTAGAT GTCAGGTTTA GTCTTCTGAA GATGAAGTTC AGCCATTTTG CACGCTCGAG	TTGCTTTCCT 12 TTATATTGGC 18	30
(2) INFORMATION FOR SEQ ID NO:512:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:512:		
GAATTCGGCC TTCATGGCCT AATTGATTCT AATCTTTCCC AAACAGTGCT ATGAAAGTAA TAAAATAAT CCTTTTTCTG TTAAAAAAAA AATTGCTGTT TTGTTATGCT TTTGCTGGAG ATTTCCCAC CCATCTTAAA GCAGCAACTT GAATCAAGCA AAACCATGGT GAAGAGATTC ATTTAAAGAG GACAAGTCTC	ACTTGCTGTT 12 CAGGATGGGG 18	2 (3 (
(2) INFORMATION FOR SEQ ID NO:513:		

- (2) INFORMAT
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:513:

GAATTCGGCC	TTCATGGCCT	AGTCACCTTT	TGTGGGAACT	TCTCTCAGCG	AAGCGGAGCA	60
TGCGAATTTG	ACATCATGAT	TGTCTGAAAA	TTGGTAAGCC	ACTATCCCAG	AAAGAGCTCC	120
CTATGCCCAG	GGCTTGCAAT	GCTAAGAGAA	GGAGGCAGGA	GAGAGACAGG	GAGCGACACT	180
ACATTTGGTG	GGGTGAGGAT	ATGAGGTTCC	TTGGACATCA	TGGCCTCCAG	TGAATATGTG	240
GGTGATGGCT	TGGAACTTAA	GCTTTTTTGC	TAGTGCCCCA	CAAAAGAGTA	CCCTCCACAA	300
CCCATCTGTG	GACCACAGCA	GTGCCTCTCA	ACAAACATGT	GCCCCAAGGA	GTCTCGAG	358

- (2) INFORMATION FOR SEQ ID NO:514:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 337 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:514:

GAATTCGGCC	TTCATGGCCT	AGAATAGAGG	AAAATAGCCG	CCTGGTGGCT	AGACAATTTA	60
GGTGTAGAAA	ACACATTTAT	ATGGTTCTTT	GAATGTAACA	GTGGTAAAGA	ATATAGGTTT	120
AGTTGTTGCT	GCTAAGTAGG	GGGAAATGAC	ATTTTTATCT	GGTATGTTTG	AGAATAAAGT	180
AAATTTCAAA	ATTTGAGATG	ATCGAAGTTT	TTATTTATAA	ACTTAAGTAT	ATAATAATA	240
TGTTACATAT	TTTATTCTTT	AAAAATTGTA	ATTCAGAGAG	TGTAACAAAA	TGTACTTCCT	300
CACTTTCTTG	CTTTTTGTTT	CCCAGAAGTA	ACTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:515:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 366 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:515:

GAAAAGATGG	AAGAAAACCA	CCATAGCACT	GCAGAAGAAC	TACAGGCTAC	TCTACAAGAA	60
TTATCAGACC	AGCAACAAAT	GGTACAGGAA	TTGACAGCTG	AAAATGAGAA	GCTGGTGGAT	120
GAAAAGACGA	TTTTAGAGAC	ATCCTTTCAT	CAGCATCGAG	AGAGGGCAGA	GCAGCTAAGT	180
CAAGAAAATG	AGAAGCTGAT	GAATCTTTTA	CAAGAGCGAG	TAAAGAATGA	AGAGCCCACC	240
ACTCAGGAAG	GAAAAATTAT	TGAACTGGAG	CAGAAGTGCA	CAGGTATTCT	TGAACAGGGC	300
CGCTTTGAAA	GAGAGAAGCT	ACTCAACATT	CAGCAGCAGT	TGACCTGTAG	CTTGCGGAGA	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:516:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 329 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:516:

GCGAGTGAGC	CGGGGTAGCA	TCACCTCACT	CCAGCCTAGG	TGATGACAGA	GTTAGATTTT	60
GTCTCAAAAA	AGAAAAAGAA	AACAATTCCA	GGATTATTAT	TTCTACGTAA	ATGTGACATA	120
${\tt TTATTTCTAT}$	GATATTATTT	CTTTGATCTC	GTAGCCACAC	TGTTCCCAAT	AATGATTATG	180
AGAAAAAGTA	CCCTCTGTTT	GAAGGCAATC	ATGGGGAAAA	TATAATTCAC	AAAGTATTTT	240
AAAATTAAAA	TCCTGTGTAT	TTCAAAAGAC	GATGGTCCTA	TTTTAAGAAA	AATAACCTTG	300
CAATTCATTT	GCTTTTTCAT	TGGCTCGAG				329

- (2) INFORMATION FOR SEQ ID NO:517:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 368 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:517:

GAATTCGGCC	TTCATGGCCT	AGTCCTTTCA	AGTACACAGA	GAAATTTTGC	TTGAATTTCT	60
GGAGGAAGAG	TCCAGGGTTC	GGGAAAAGGG	ACTGGGTGGT	ATCTATCTGG	GGCCCCAGAC	120
AGCGGCACTT	CTTTCTTCTG	TGCTGGAATT	CGGCGAACAA	TCATATCATC	TTTTTCCAAA	180
TCCGGAAGTA	CAAGTTCACC	TTCTCTACAC	TGTAAAATTA	TATCTCGCTC	TACAGAATCA	240
TCTTGCTCAG	AGAACTTTCT	AAAGTCTTCA	AAAGCTCGGA	GAACATATGG	ATTTGCATGG	300
AAAGCCCCAG	TCTTTCTGAC	AAAGAAATCA	TCATTCTCTA	AGTCAGGATC	CAGGGCTGCC	360
ATCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:518:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 397 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:518:

GAATTCGGCC	TTCATGGCCT	ACGCTGAGAT	CAAGATTCGG	AGTTTGGGCT	GCCTAATAGC	60
TGCAATGATA	CTGTTGTCCT	CACTCACCGT	GCACCCCATC	TTGAGGCTTA	TCATCACCAT	120
GGAGATATCC	TTCTTCAGCT	TCTTCATCTT	ACTGTACAGC	TTTGCCATTC	ATAGATACAT	180
ACCCTTCATC	CTGTGGCCCA	TTTCTGACCT	CTTCAACGAC	CTGATTGCTT	GTGCGTTCCT	240
TGTGGGAGCC	GTGGTCTTTG	CTGTGAGAAG	TCGGCGATCC	ATGAATCTCC	ACTACTTACT	300
TGCTGTGATC	CTTATTGGTG	CGGCTGGAGT	TTTTGCTTTT	ATCGATGTGT	GTCTTCAAAG	360
AAACCACTTC.	AGAGGCAAGA	AGGCCAAAAA	GCTCGAG			397

- (2) INFORMATION FOR SEQ ID NO:519:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 640 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:519:

GAATTCGGCC	TTCATGCCTA	CTTTGGTAAC	AGAAGAGAAG	ACTGTGGAGC	CAGCTACCGT	60
CTCAGAAGAA	GCAAAGCCTG	CATCTGAACC	TGCTCCTGCC	CCTGTGGAAC	AGCTGGAACA	120
AGTAGACCTG	CCCCCAGGAG	CAGACCCCGA	TAAAGAAGCT	GCCATGATGC	CTGCGGGTGT	180
TGAGGAAGGT	TCATCAGGTG	ACCAGCCGCC	TTATCTGGAT	GCCAAGCCTC	CAACTCCCGG	240
GGCCTCGTTT	TCCCAGGCAG	AGAGCAACGT	AGATCCAGAG	CCTGACAGTA	CCCAGCCACT	300
TTCAAAACCA	GCTCAGAAGT	CTGAGGAAGC	CAATGAGCCA	AAGGCCGAAA	AGCCAGACGC	360
CACTGCAGAT	GCTGAGCCTG	ATGCAAACCA	GAAAGCCGAA	GCTGCTCCTG	AGTCTCAGCC	420
CCCAGCTTCT	GAAGATTTAG	AGGTTGATCC	TCCAGTTGCT	GCAAAGGATA	AAAAGCCAAA	480
CAAAAGCAAG	CGTTCAAAGA	CCCCTGTTCA	GGCAGCTGCA	GTGAGTATCG	TGGAGAAGCC	540
CGTCACAAGG	AAGAGTGAGA	GGATAGACCG	GGAAAAACTC	AAGCGGTCCA	ATTCTCCTCG	600
GGGAGAAGCA	CAGAAGCCTT	TGGAATTAAA	GACACTCGAG			640

- (2) INFORMATION FOR SEQ ID NO:520:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 469 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:520:

GAATTCGGCC	TTCATGGCCT	AGCAAGAGAA	AGAGAAGTGC	AAACACTCCC	ACGGCGAAGC	60
GCCCTCCGTG	GACGCGGATC	CCAAGTTACC	CAGTAGCAAG	GAGAAGCCCA	CTCACTGCTC	120
CGAGTGCGGC	AAAGCTTTCA	GAACCTACCA	CCAGCTGGTC	TTGCACTCCA	GGGTCCACAA	180
GAAGGACCGG	AGGGCCGGCG	CGGAGTCGCC	CACCATGTCT	GTGGACGGGA	GGCAGCCGGG	240
GACGTGTTCT	CCTGACCTCG	CCGCCCCTCT	GGATGAAAAT	GGAGCCGTGG	ATCGAGGGGA	300
AGGTGGTTCT	GAAGACGGAT	CTGAGGATGG	${\tt GCTTCCCGAA}$	GGAATCCATC	TGGATAAAAA	360
${\tt TGATGATGGA}$	GGAAAAATAA	AACATCTTAC	ATCTTCAAGA	GAGTGTAGTT	ATTGTGGAAA	420
GTTTTTCCGT	TCAAATTATT	ACCTCAATAT	TCATCTCAGA	ACGCTCGAG		469

- (2) INFORMATION FOR SEQ ID NO:521:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 202 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:521:

GAATTCGGCC	TTCATGGCCT	ACCCGTTTCC	TCTAGTTTCT	TCCTGTAGTA	CTCCTCTTTT	60
AGATCCTAAG.	TCTCTTACAA	AAGCTTTGAA	TACTGTGAAA	ATGTTTTACA	TTCCATTTCA	120
TTTGTGTTGT	TTTTTTAACT	GCATTTTACC	AGATGTTTTG	ATGTTATCGC	TTATGTTAAT	180
AGTAATTCCC	GCGGCCTTCA	TG				202

- (2) INFORMATION FOR SEQ ID NO:522:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 492 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:522:

GAATTCGGCC	TTCATGGCCT	AAATTTAATG	AAGCAAAATT	CCATACATCA	TTTTGAAAAT	60
AGTGTTTCTT	TCCCTGATAG	GCCTGTTCTG	CATCATTCTT	TTAGCTTCCT	TCTGCCCTGT	120
TTATCACTTG	GTCCCACTTT	TATATTTTC	CTCTTCGGTC	CAGAATTTCT	TATTTAGTTT	180
CTTGTATTTT	GCCTACTCCC	TCCCTTCTCC	ATGATTCAGC	CTAGTCTTTC	CGTCCTCTGT	240
GGACTTGGGT	GTGCCTTCCT	CTGGGCCACC	TCGTCTTTTG	CTGCTGTTAG	CCCTCCCGCC	300
TGCGCACCTG	CCACTTCACC	CTCGCCTGTG	GTCCACTTAC	${\tt GTTCCACTCA}$	GCCCGGTCAG	360
TCCTGCTTTG	TTCTTCTCCA	CCGCCTTGGT	CTCCCGTGTG	TCTTATCTAG	CTCTGGTTCC	420
TTCTCGTCTC	CACATTTATT	TTGTTTTCTT	CCTGTGCTTG	TTAGTCCTTG	TGCACTTGGC	480
CCTTTTCTCG	AG					492

- (2) INFORMATION FOR SEQ ID NO:523:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 394 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:523:

120
180
240
300
360
394

- (2) INFORMATION FOR SEQ ID NO:524:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 600 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:524:

CGATTGAATT	CTAGACCTGA	CCAAAGACCT	TCCGTACAGA	TTGACCGCAG	AATGTCAGGG	60
AAAGTTAGGA.	GAAGAAGTTC	TGAGAAGACT	GACTACAGAT	TGGCTGGCCT	GGCTGACCCA	120
GGAACTTCTG	AGCAGACTGA	CCTCAGATTG	TATGGCCTCG	TTGACCACAA	AACATCTGTA	180
AAGACTCACC	ACCAAGTGTA	CGGCCAAGCC	ACTGAACTAG	CTGAACACCA	GGCTATTGAC	240
CAAGCTCATA	GTAATGCTGA	TCAACCTCCA	GTTGACAATG	CTCACTACAC	TGAATCTGAC	300
CAGACTGACC	ACTTAGCAGA	CAGACAAGCT	AATCATAAAG	ACCAGCTGTC	TTACTATGAA	360
ACACGTGGCC	AGTCTGAAGA	CAGAATATTT	CCCCAGTTAG	GCAACAGCAA	AGAGGACAAA	420
GAGGCTGACT	ACAGAGTACA	ACCCTGCAAA	TTTGAGGATA	GCCAAGTAGA	CCTCAATTCC	480
AAGCCTTCAG	TTGAAATGGA	AACTCAGAAT	GCAACCACTA	TCCCACCCTA	CAACCCAGTT	540
GATGCCAGAT	TCACCAGTAA	ATTCCAAGCA	AAAGACCAAG	CTCTTTTCCC	AAGACTCGAG	600

- (2) INFORMATION FOR SEQ ID NO:525:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 466 base pairs

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:525:

GAATTCGGCC	TTCATGGCCT	ACTTTCTTCT	GCTGGCTTCC	ATCTTGCCAC	ACTTTCTTGC	60
TCTTCCTTCT	AACTGAAAGA	CTACTTCTCC	ATCCCCTCTG	CAGGCTCTTT	TGCTCCACCT	120
GATATTTAAA	TGTTGGAATG	CCTAGAGTTG	TTCTGACCCT	TCTTTATCTA	CCCCGATTTC	180
CTCAGTGATC	TTATGCAGAG	GTCTCCCAAA	GTTTACATGG	CTATCCTTGA	CCTCCTTCCT	240
GAACTGCAGC	TGGTGTCAGC	TGCCGTCACT	TGGATGTTTA	ATCAGCAACT	CAAGGTTTAC	300
GTGATGATTA	GACCGCAGTT	ACCCCCAGAC	TTCCTTATCC	CTTAGTTTTC	CCCATCTCAT	360
TAAGTTCACT	TCCATTCACC	TTCTTGATGA	AGCCAAGTAT	TTCAGAACTA	GCCTTGTTTC	420
TTCTTTTTCA	CTTTCCCCCA	TATCAATTCC	AGACTACCCA	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:526: .
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 559 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:526:

GAATTCGGCC	TTCATGGCCT	ACATTGTAGA	AGAGATCACA	GAAACCACAA	AAGGTTTTCT	60
GAAGTATATG	GATAATCAAT	CATTTGCAAC	TGAAAGTCAG	${\tt GAAGGAGTTG}$	GTTTGGGACA	120
TTCACCTTCA	TCCTATGTGA	ATACTAAGGA	AATGCTAACC	ACCAATCCAA	AGACTGAGAA	180
ATTTGAAGCA	GACACAGACC	ACAGGACAAC	TTCTTTTCCT	GGTGCTGAGT	CCACAGCAGG	240
CAGTGAGCCT	GGAAGCCTCA	CCCCTGATAA	GGAGAAGCCT	TCGCAGATGA	CAGCTGATAA	300
CACCCAGGCT	GCTGCCACCA	AGCAACCACT	CGAAACTTCC	GAGTACACCC	TGAGTGTTGA	360
GCCAGAAACT	GATAGTCTGC	TGGGAGCCCC	AGAAGTCACA	GTGAGTGTCA	GCACAGCTGT	420
TCCAGCTGCC	TCTGCCTTAA	GTGATGAGTG	GGATGACACC	AAATTAGAGA	GTGTAAGCCG	480
GATAAGGACC	CCCAAGCTTG	GAGACAATGA	AGAGACTCAG	GTGAGAACGG	AGATGTCTCA	540
GACAGCACAA	GGCCTCGAG					559

- (2) INFORMATION FOR SEQ ID NO:527:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 318 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:527:

GAATTCGGCC	TTCATGGCCT	ACGCAGTGGT	TCAATTTTCT	TCGAAACGGT	GTGGTCCCTG	60
CAAAAGGATG	TTTCCTGTTT	TCCATGAGCT	GGCTGAAACT	TGTCACATCA	AAACAATACC	120
CACATTTCAG	ATGTTCAAGA	AAAGCCAGAA	GGTAACCCTA	TTCTCAAGAA	TCAAAAGAAT	180
AATTTGCTGT	TATAGAAGTG	GATTCATGAG	CAACCTGATT	TTTGAGTTTT	GTGGAGCCGA	240
TGCTAAAAAA	TTGGAAGCCA	AGACTCAAGA	ATTAATGTAA	GCTGATCTCC	AAGGCAAAAT	300
ACACTTGTGC	CGCTCGAG					318

- (2) INFORMATION FOR SEQ ID NO:528:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:528:

GGCACAGACT TACCGGACAC ACAGGTCATO	GGACACAGAG	TCATGGGGCA	CACAGGTTCA	60
CAGGGCACAC AGGCTCACGG GACACAGAGT	CATGGGACAC	ACAGGCTCAC	AGGGCACACA	120
GGCTCACAGG ACACACAGGT TCATGGGGCA	CAGAGTCATG	GGGCACAGAC	TCACAGACTC	180
ACAGGTCATA GACGCTCATG GGGCGCAGGC	TCACAGGGCA	CACAGACTCA	GGGCACACAG	240
GCTCATGGGG CACAGAGTCA TGGGGCAGGG	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:529:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 180 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:529:

GAATTCGGCC	TTCATGGCCT	ATTCTGTTCT	TTAAATTTGA	ATGAAAGTTT	GGCATTTTAA	60
AAAACTTTAG	GTGATTTAGG	AGTATAATTT	TAAGCAGATT	TTTAGAGTAC	GAGTGTCCAC	120
ATATTTAACT	AAACATTCAA	AAATTAGTTA	AAATCAATGA	ACTTGGGAAG	GATCCTCGAG	180

- (2) INFORMATION FOR SEQ ID NO:530:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 470 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:530:

GGGGACAGAA	GATGTGCTCC	AGGGTCCCTC	TGCTGCTGCC	GCTGCTCCTG	CTACTGGCCC	60
TGGGGCCTGG	GGTGCAGGGC	TGCCCATCCG	GCTGCCAGTG	CAGCCAGCCA	CAGACAGTCT	120
TCTGCACTGC	CCGCCAGGGG	ACCACGGTGC	CCCGAGACGT	GCCACCCGAC	ACGGTGGGGC	180
TGTACGTCTT	TGAGAACGGC	ATCACCATGC	TCGACGCAGG	CAGCTTTGCC	GGCCTGCCGG	240
GCCTGCAGCT	CCTGGACCTG	TCACAGAACC	AGATCGCCAG	CCTGCCCAGC	GGGGTCTTCC	300
AGCCACTCGC	CAACCTCAGC	AACCTGGACC	TGACGGCCAA	CAGGCTGCAT	GAAATCACCA	360
ACGAGACCCA	GGCCCTTCAG	CACCGTTCAC	AGTATTTTGA	AGGTGTTGTG	AAGTGCAATA	420
AGCTGGAAAT	ACTGGAGACC	ATCGTGGACA	GAATAGTAAG	AGCCCTCGAG		470

- (2) INFORMATION FOR SEQ ID NO:531:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 553 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:531:

GAATTCGGCC	TTCATGGCCT	AGAAAATTCC	AGAAAGGATA	TTTAAGAAAA	TACAATAAAC	60
TATTGGAAAG	TACTCCCCTA	ACCTCTTTTC	TGCATCATCT	GTAGATACTA	GCTATCTAGG	120
TGGAGTTGAA	AGAGTTAAGA	ATGTCGATTA	AAATCACTCT	CAGTGCTTCN	TACTATTAAG	180
CAGTAAAAAC	TGTTCTCTAT	TAGACTTTAG	AAATAAATGT	ACCTGATGTA	CCTGATGCTA	240
$\mathtt{TGGTCAGGTT}$	ATACTCCTCC	TCCCCCAGCT	ATCTATATGG	AATTGCTTAC	CAAAGGATAG	300
TGCGATGTTT	CAGGAGGCTG	GAGGAAGGGG	GGTTGCAGTG	GAGAGGGACA	GCCCACTGAG	360
AAGTCAAACA	TTTCAAAGTT	TGGATTGTAT	CAAGTGGCAT	${\tt GTGCTGTGAC}$	CATTTATAAT	420
GTTAGTAGAA	ATTTTACAAT	AGGTGCTTAT	TCTCAAAGCA	GGAATTGGTG	GCAGATTTTA	480
CAAAAGATGT	ATCCTTCCAA	TTTGGAATCT	TCTCTTTGAC	AATTCCTAGA	TAAAAAGATG	540
GCCTTTGCTC	GAG					553

- (2) INFORMATION FOR SEQ ID NO:532:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 843 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:532:

GAATTCGGCC AGAGAG	GCCT ACTTCTCTTA	GTGATTTCAT	GTTTCAACCA	GTACATTGTG	60
GTGAATACTG AAATAT	CTTG TTTAATTCAG	AAAATTAAAA	TGGTGGCAAA	GGAAGCTGTT	120
TAGCCAGAGC CCTTCT	IGAC TTTGAGGAAC	AGTGGTAGTA	TAAGACTTGA	AGACAGACGT	180
GTAAAAAGTA CTACTC	ACTG GTAGGCTCAG	GTCTGGTTGA	TTGACTGATT	CTTGAGACGG	240
AATGTCGCTC TGTCGC	CTAG GCAGGAGTGC	AGTGGCCCAG	TCTCGGCTCA	CTGCAGCCTC	300
CGTCTCCGGG TCCAAG	CGAT TCTCCTGCCT	CAGCCTCCCG	AGTAGCTGGG	ACTACAGGCG	360
CCCGCCACCA CACCGG	GCTA ATTTTTGTAT	TTTTAGTAGA	GACGGAGTTT	CACAATATTG	420
GTCTCGAACT CCTGAC	CTCA GGTGATCCAC	TCGCCTGGCC	CACCCAAAGT	GCTGGGATTA	480
CAGGGATGAG CCCCTG	CGCC TGGCCTCGGT	TGAATTTATT	AAACAACTTT	TGTGGGCAGC	540
AAGCTGTACG AGGTTA	ACTA TGTGATGAGA	AGACTTAGAA	ATGGAGAAAA	GTTTTATCAG	600
TTCTACATAG GACTTAG	GTTT GGGAGTTTCT	GGAAACTACG	TTGGAAATCA	GTAGTTGCAC	660
ACTAGCTGAA TTCAGC	IGTG TAATTTACAG	TGATTTGTTA	TTTACCAAAT	AAGTAGAAGA	720
GGGAATTAAG AAGCTA	AAAT CTCTGGGTAC	TTGTTTGATA	TGAATTTGTT	AATTGTTTAT	780
ACTCAGGTAA TAAGTG	TTAC CTCAGTCATA	GCATTTAATA	TTTTATCTGA	CTGTCCTCTC	840
GAG			•		843

- (2) INFORMATION FOR SEQ ID NO:533:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 525 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:533:

GAATTCGGCC AAAGAGGCCT ACATCCAGAA ATTTAGGGAC TCAGCCCTGG TCAGGGTGGC AAAGGGTCTG TTTGTCTTTC CCCATTAGAC AGAGGTCTTG TCCTGCTACC CTAATTGTAA AGAGGGTGCT GCGGAAGGGGT GGTAGGGACA TGGTGGCGGT GGAGACTCCG GCCCCACTTC AATTTTATT TTTATTCCAT GACTTTTTAAAAAGAAATCC CGTAACTTC TTTTCATAAC TTTTTTGTA ACTTTTTAT CCCACACAGT TTTTTGCCAC AACGTTTTTA AAATAAAGGTT TTTAATTAA AAAAAAGATT TTTAATTAA	60 120 180 240 300 360 420 480 525
(2) INFORMATION FOR SEQ ID NO:534:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:534:	
GAATTCGGCC AAAGAGCCT AGAAAACCCT TGAAGACATG TTGAAAATAC ATACTCCTGT TAGCCCAAGAA GAAAGATTGA TTTTCTTAGA CTCCATTAAG TCCAAATCCA AAGACTCTGT GTGGGAAAAA GAAATAGAAA TACTTATAGA GGAAAATGAG GACCTCAAAC AACAATGTAT TCAGCTAAAT GAAGAGATTG AAAAGCAAAG GAACACTTTT TCATTTGCTG AAAAAAAACTT TGAAGTTAAC TATCAAGAGT TACAAGAG	60 120 180 240 268
(2) INFORMATION FOR SEQ ID NO:535:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:535:	,
GGCTTGCACC TCGGCGATCC CCGACTCCCT TCTTTATGGC GTCGCTCCTG TGCTGTGGGC CGAAGCTGGC CGCCTGCGGC ATCGTCCTCA GCGCCTGGGG AGTGATCATG TTGATAATGC TCGGAATATT TTTCAATGTC CATTCCGCTG TGTTGATTGA GGACGTTCCC TTCACGGAGA AAGATTTTGA GAATGGCCCC CAGAACATAG ACATTCCTCT CGAG	60 120 180 224
(2) INFORMATION FOR SEQ ID NO:536:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:536:	

60 120

GAATTCGGCC TTCATGGCCT ACCACTCTGG CCCCAGCGTC ACTGGCCTAG GGACACATGG GGGTGGGGAT TGTTTGGCCT TCCTGGCTTA GGTCTCTGGA AGAGAAGA ACCCCATGGG

GCAGACCCAG GCCACGGGCA GTACATGCCT CCCACACTAC TGACACCGCC AGTGTCTTCT GTGAAGCCAC CTTTGAGCAA CGGAAAGGAA GGGGGATGGG CAAGATCAGT GCAAGGTTGG CCAAAAGCCT GGGGCTGGCC TTCTGCTGGC ATGAGAGGGC CAGGCCGCCC CCAGCTCCTC GAG	180 240 300 303
(2) INFORMATION FOR SEQ ID NO:537:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:537:	
GAATTCGGCC TTCATGGCCT AGAACAAAT CTGAAATTCA GAAATAAACA ACAGTTGGAA AATATTTTCC ATTTTTTTCC CTATTAAATA TGATAAATTTC AGGTGCAAAG AGTGTTTTT TTTTTTTTTT TTTCTCCACA GTGCTTTTCA CGGTGGGGAC TAATGGATAT AGAGGGTGGG AGGCCAGAAT AACCAAGTAC CTGGAAGTGA ATCTTTGTGG AGATAATGAA ATAATTTAT TCGAAAGGTG CAAAAGGAAG TCTTCCATCA CTAGCTCAGC TGTTATGGTC CTTGAACTGC CCTTGCCCGT CTGTCTTTTT ATTAATCCTT TTTACCTGTC GAGTCTCGAG (2) INFORMATION FOR SEQ ID NO:538: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:538:	60 120 180 240 300 350
GAATTCGGCC TTCATGGCCT AGAGTTGCAC AGATGTCTTT TGTTAGCTTT GGTGGCGGAG TCATCCTCAC AGACCGTTAC TCAGATAATT AAGTGCCTTG CAAATTTAGT ATCAAATGCA CCTTATGATC GTCTAAAACT CAGCCTGCTG ACCAAAGTCT GGAACCAGAT AAAGCCTTAT ATTCGCCACA AAGATGTTAA TGTTCGTGTG TCAAGTCTCA CACTCTTGGG AGCTATAGTG TCCACCCACG CACCTTTACC TGAAGTCCAA CTACTTCTGC AACAGCCATG TTCTTCTGGA CTCGGTAATA GCAATTCAGC AACCCCTCAC CTCAGCCCCT CGAG (2) INFORMATION FOR SEQ ID NO:539: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 343 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	60 120 180 240 300 344
(EE, IOMBOOKS LIMI OPIN	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:539:

GAGAAGAAAC ACACAAAGGA AAGACAAGAA GCAACCCCTC GAG	343
(2) INFORMATION FOR SEQ ID NO:540:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:540:	
GCGATTGAAT TCTGAAGACC TCTCAGCCTC TTATGACCAC TCCTGGCACC CTGTCAAGCA CAGCATCTCT GGTCACTGGC CCTATAGCCG TACAGACTAC ACCTGGAAAA CAGCTCTCGC TGACCCATCC TGAAATACTA GTTCCTCAAA TCTCAACAGA AGGTGGCATC AGCACAGAAA GGAACCGAGT GATTGTGGAT GCTACCACTG GATTGATCCC TTTGACCAGT GTACCCACAA ATCTCGAG	60 120 180 240 248
(2) INFORMATION FOR SEQ ID NO:541:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 433 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:541:	
GAATTGGCCT TCATGGCCTA GATTGTCTTT ATAGGAAATG TCTTTAGCAA AATACTACGG GTTCTATAAA ACCCATTAAC GGGTTATCAG TGTCTAGGAC ATAAATGGCT TCTGGTAAGA AAATTAAGGT CTACTCTCCC TAAAATACTAT CATAAATTACA AAGGTTAAGA AAAAAGAAGT AGAGTAAAAA ACTCCAGTTG CTTGTTTATC TCTCAGGCTG AGCATGGTTG GTTACAATGA GGGGTAGCAG GAAGAGCACA GCCTTGGACT CCAGTCCAAG GAACTCCAGT CTCTCTGCA ATTTCCCAGT GTTTGACCTT GGGCCACTTA CTGTCCTTT CTCAGGCCTC ATTTTCATAT CTAAAACCTC GAG	180 240 300
(2) INFORMATION FOR SEQ ID NO:542:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 493 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:542:	
GAATTCGGCC TTCATGGCCT AGACACGGGA CATAAAAACT TTTAATGAAG GAGGACACAG CTCAGAGCCC TTCCACATGC GGCCCAACCC TGCCCCACGG AGACCGGCCA TGCCAACCGC TCAATCAGAA GGTGTTCTTG ATGCGGCCGG CCACCAGCCT AAGGATGTCC CCGATCTTCT CTCGCCAGTT GGCGATGTCC TTGGACACGG CGCACCACAG CTCCCCATGC CGAGGCTCTG CACTCTCACA GCGCTTCCTC ACCTCCTC GCTGCTCCTC AGTGCCATGC TGCAGCTCAA	

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ACTTGTAGAA GAAGGCCCAG GCATCCCCCA GGTCCGAGTC AATCTTCACA GTGCGGTGGA ACCACTCCCT GGCCTTGGTG ATCTTCCGCT GACTCCAAAA CAGCTTGGCC ACGGCCAGGA GCACATGGGG GTCATGCTCA CACTTCTTCA GGGCATCCAC GCTCTTGGTC CTCCTCTGGG GCCTTGCCTC GAG	360 420 480 493
(2) INFORMATION FOR SEQ ID NO:543:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:543:	
GAATTCGGCC TTCATGGCCT AGTCAGGGAG AAGGGAAGGT GAGAAGGGGG GGAAAAAAGA AGCAAAAAGC CCAAAGAAAA AAACATTTTA TATTCATCTG TATAAACATA TCCGCTAAGG CAAAAAACGCAAT CCGGGTCCGA GCTGGTGCG CTGGCTCTGA TTTCTGCAGA TTCTAAGGCC AAAAAATAAA ACCTCTGCAA GTCCGCGTAG CTTCCAGGAC TCCTGGGCAT TTTACTAAAA TAAAGAGTTA TCGAGTTTAA AAAGCAGTGA CGTCGTTATG ACACACACTG AAAGTTGCAT AACTGTGGCC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:544:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 473 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:544:	
GAATTCGGCC AAAGAGGCCT AAGAATTCCT TATGAAAGTG ATGCTTGAGT CAAAAATATGA TGGATGAAGA GAGTTTAAAT AGATTACATA GAATTTTAA TAATGTCGAT TGGTTATATA CTGGGCACTG ATAGCTGATT TTTCTTTTGGG GAAAGGTATG TCAGCCTAGT CATTCAGATT TCCTTTATTTT TTTAAATGTT TTTTCATTTT TTGGTTTGCA TTGCATTCAT TTGCTGAAGA GCTGGCTTGT ACTTTGGCAG GTGTCATACT TGGTTATTCT CCTTAGGATA TTGGCCCAAC AATCTGGGAT TTGTGAAAGG CGCTTCGCTT TTCAGACCTG GGCGTCTGTA TCATGACTAT CATAAATTTA GGATTAAGAC ACCTAGCCTC CTACCAGGAT GAATGAGGTG TCCATGTGAC CTGCTGTGCC CTGGAATTTT ATACATCTTT CTCTCATAGC ACACGGACTC GAG	60 120 180 240 300 360 420 473
(2) INFORMATION FOR SEQ ID NO:545:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:545:	

60 120

GAATTCGGCC AAAGAGGCCT AGTCGAGAAG GAAGAGGGAA GAAGAAAAAC TATAAAAGTG TGCTAAATGT TTTATTTCC CTGGAAGAAT AGTTATATTC TACTCTTTGT GGCTCTCGAG

- (2) INFORMATION FOR SEQ ID NO:546:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 481 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:546:

GCTAGACCTG	CCCCCTTAGA	AATGGAAAAA	GCATGCAAGA	GAGATGTTAA	AGGAGACTAT	60
TGGAGCAACT	GTGTCCACAC	CCTCTGTGAT	AGAAATGGAA	AAAATATCCC	CAGAAGATCG	120
TGGTGAGAAT	ATTGGGAAAC	ACAAAGTGTT	ACCCGCAGTG	GTAGACATTG	AGAAAATACA	180
TGGAACAGGA	CTAGAATTGA	CCACTAAACA	AGGGGAGGCC	ATGCTTCCTG	CATTTGAAAG	240
TAAAACACCA	CAAGAGTATG	CTGAAGGGAG	TGTTGAAGAA	ACAATGGAAA	ATACTTACCA	300
AAAGGATGCT	GAAGGGGATA	TTGGAAAGGC	TGAAGTGATG	CCTGTGAGGT	TAGAAATGGA	360
AAATACTTAC	CCAAAGGATA	CTGAAAGAGA	CGGTGGCAAA	ACTGAGGTGA	TGCCCCTTGC	420
ATTAGAGGTA	GTAAATACTT	ACCAAAAAAA	TGCCAAAGGT	TTTACCGGGA	ACAATCTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:547:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 405 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:547:

GAATTCGGCC	AAAGAGGCCT	AGAAACCTGA	GGCTGCTGCC	CTTTATCTGC	CTTCACGGTA	60
CTGTCCCCTT	CCCCCAGCTC	CTCCCTGACC	CCATGGGCCA	GGCCTCAGAC	CTTCCAGCTA	120
ACCGCTTCCC	ATGAGCCACT	ACTCTGATGT	CAGCCTATAA	CCAAAGGAGC	TGGGGGGTCC	180
AGGCCTGGTG	ACCAACCTTT	CTCAGCCCAC	TCAATCAGGG	TGCTCCCCAC	CTGCAGGCAG	240
GAGGCAACAC	CCTATCTGCT	ACCATCAGCC	CCTTCCAGAG	CCCATCTGCC	CCGCCCAGCC	300
CTGCCCTGCC	CAGCCATACC	CTGCTCTGCC	CCATCTGGGG	GTGCCCTGCT	CAGGGATGGG	360
CTGGCAGGGC	TGTACCCAGC	CTCCCTGGTA	AGCAAAGAGC	TCGAG		405

- (2) INFORMATION FOR SEQ ID NO:548:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 142 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:548:

GCGATTGAAT	TCTAGACCTG	CCTCCCTGCT	TTCTAATAAA	TCTGACTAAC	CTTAGACATT	60
TTGTATCTTA	CTAAGAACAT	CCCTTCAATA	TCTACTTCAT	TATCCCATGC	CATTTCCCCA	120
CTGTCTCAAC	ACGAATCTCG	AG				142

(2) INFORMATION FOR SEQ ID NO:549:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 296 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:549:	
(NII) III (NII) II (NII) II (NII) II (NII) II (NII) II (NIII) II (NIIII) II (NIIIII) II (NIIIIII) II (NIIIII) II (NIIIIII) II (NIIIII) II (NIIIIII) II (NIIIII) II (NIIIII) II (NIIIII) II (NIIIII) II (NIIIIII) II (NIIIII) II (NIIIIIII) II (NIIIIII) II (NIIIIIII) II (NIIIIIII) II (NIIIIIII) II (NIIIIIIIIII	
GAATTCGGCC TTCATGGCCT ACTATGGTAT TGCTAAACAA GGGTGGGAGG AGAGAGAGGT	60
AATCAGGGAG GACTTCCCAC AGGAGGTGGC ATCTGCAGAT GTCTCAAAAA AGAAAAGAAT	120
TAGCCTGGCA AGAGGTGAGG ATTGTGTAGA GGTCACTCAC TTTCCTTGTG GGTGGAGGAA	180
ACCATTCCAG GAGCTGTAGG AAGCTTGGTG CTGGTGAAGG AGGCAGGAGA GGAGAGAAGA	240
GGAGATGACC TTAGAAATCA CATCCAAGAG CCTCTGATCC CAGGAGGCAG CTCGAG	296
(2) INFORMATION FOR SEQ ID NO:550:	
,	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 254 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(11) Nonneonn XIII. Chin	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:550:	
GCAGGAGAGA AAATTGAGGC TTAGGTTAAG AAACTTACCC AAAGTCAAAC AATTTAATTG	60
GTTTGGGAAG ACCAGGAAGA CTTTAAGTTC CTAAGATCGT TTGAGATTCT GCATCAGGGA	120
ACACTTGACA GCAGGTTTAT ACAAAGACAG ATTTGGTATC TTTGGAGGGA ATGAGTTTCC AGTCATTGCA GGTGGTCCAG CAGAGAGGGC CACTCTCCTT TTTTTCTTTC TTTACTCCCT	180
TTTTGATTCT CGAG	240 254
TITIONITE COM	254
(2) INFORMATION FOR SEQ ID NO:551:	
,	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 278 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(1)	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:551:	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:551:	
AGGCCATGAA GGCCCTTTCC ATTTCTTTTT GTTCCATCAC TCTTCTCTCA ACCTGTGTTT	60
CTTTTTTTAC TGAGGAGTTA GTCCCCATTA GTTCTTGTAT CACATTTTCA TTTGCACGAC	120
ATTACTCGCA GGTGGTGGGG AGCCTGGGCT TTTGGGGAAC CAGGCTGCTC TGGTCCCCAG	1.80
CATTGCCTCC TCCTAGCCCC TCTAGTCCAG TTTGCCTCCC TTACCCTCAT TTTCCAAACC	240
TCTTGTACCC TCCTCTCCCT CCCCCAGCTG GCCTCGAG	278
(2) INFORMATION FOR SEQ ID NO:552:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 322 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(D) IOPOLOGY: Tinear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:552;

GAATTCGGCC TTCATGGCCT	ATGCACTTCT	TCTTTCTCTC	CTCCTTTTGC	TGGGTGCTTA	60
CCGAGGCCTG GCAGTCCTAC	CTGGCTGTCA	TTGGGCGGAT	GCGCACCCGC	CTCGTTCGCA	120
AGCGCTTCCT CTGCCTGGGC	TGGGGTCTGC	CTGCCCTGGT	GGTGGCCGTG	TCTGTTGGCT	180
TTACCCGAAC GAAAGGATAC	GGTACATCCA	GCTACTGCTG	GCTCTCCCTG	GAGGGCGGCC	240
TGCTCTACGC CTTTGTGGGC	CCTGCAGCCG	TCATTGTCCT	GGTGAACATG	CTCATCGGAA	300
TCATCGTCTT CAGCAGCTCG	AG				322

- (2) INFORMATION FOR SEQ ID NO:553:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 390 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:553:

GCCAAAATCA	AGCAAAGTAT	GAAGAAAGAT	AAAGAAGGGG	AAGAAAAAGG	GAAGCGAAGA	60
GGATTCCCCA	GCATCCTGGG	ACCCCCACGG	AGACCAANCC	GTCATGACAA	CAGTGCAATT	120
GGCAGAGCCA	TGGAACTACA	GAAGGCGCGC	CACCCTAAGC	ACTTATCCAC	ACCCTCATCT	180
GTGAGTCCTG	AACCTCAGGA	CTCTGCCAAG	TTGCGCCAGA	GTGGGTTAGC	AAATGAAGGA	240
ACAGACGCTG	GATACCTGCC	TGCCAATTCC	ATGTCTTCTG	TAGCTTCAGG	GGCCTCTTTT	300
TCCCAGGAAG	GAGGGAAAGA	GAATGATACA	GGATCAAANC	AAGTTGGAGA	AACATCAGCA	360
CCTGGAGACA	CCTTAGATGT	CACCCTCGAG				390

- (2) INFORMATION FOR SEQ ID NO:554:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 306 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:554:

GACGGCTACA	CCATGGGCCG	GCTGCTGCGG	GCCGCCCGGC	TGCCGCCGCT	GCTTTCGCCG	60
CTGCTGCTTC	TGCTGGTTGG	GGGAGCGTTC	CTGGGTGCCT	GTGTGGCTGG	GTCTGATGAG	120
CCTGGCCCAG	AGGGCCTCAC	CTCCACCTCC	CTGCTAGACC	TCCTGCTGCC	CACTGGCTTG	180
GAGCCACTGG	ACTCAGAGGA	GCCTAGTGAG	ACCATGGGCC	TGGGAGCTGG	GCTGGGAGCC	240
CCTGGCTCAG	GCTTCCCCAG	CGAAGAGAAT	GAAGAGTCTC	GGATTCTGCA	GCCACCACCA	300
CTCGAG						306

- (2) INFORMATION FOR SEQ ID NO:555:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 327 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:555:

(GAATTCGGCC	TTCATGGCCT	ACCCTCTCAC	GCCACCCCCG	CCCCCACCGG	GCTGCAGGTG	60
(CTGCTGATGC	GCTGGGATCT	GATTGAGGAT	AAAAAGGAAG	GAGAGATGAC	CCCTACCCC	120
1	CATCCCCA	GTTTTGAAAA	GGTCTAAGCA	AGTGAGTCTG	GTGGAGGAGC	TGAGGGAGGG	180
ž	AGCCATGGAA	GGTGCCAGAA	GGAAGGTTGG	CGGGGGCACG	TGTGGGCCGT	GGCTTGGGCT	240
(GTCAGAGTG	GCGTGAGCTG	CCCGGCGCCT	GCCCTGCCCA	AGTGACCAGG	GAAGTGTGTG	300
1	TGTGTCCATG	TGTATGCGTG	GCTCGAG				327

- (2) INFORMATION FOR SEQ ID NO:556:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:556:

AG CCAGCTGGGG CCGAATCCAT CCGCTTGAAC	60
AC TTAGTGGCCC TGCTGGCTGT GAGAGACACC	120
CT TCGGAGAGCG ACTCGCAGGA AAGTGGGGAC	180
AG TTCGTGGCCA TTGTGGCCTA TACCGACCCG	240
CG AG	272
	AC TTAGTGGCCC TGCTGGCTGT GAGAGACACC CT TCGGAGAGCG ACTCGCAGGA AAGTGGGGAC AG TTCGTGGCCA TTGTGGCCTA TACCGACCCG

- (2) INFORMATION FOR SEQ ID NO:557:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:557:

GAATTCGGCC	TTCATGGCCT	ATTTCCGATC	TATGTATCTG	TACTCATACA	GCCTCATCGG	60
GCTAAACAGC	CTTCTTTTCA	GAACAGTAGA	TCACTCAACT	GGGTTTTCAA	GTGACTGTTT	120
ACCTTTCAAG	GCTGGCTTTA	TAGGTCTTGC	CTCACTGTAT	CCAGCAATCC	AAACTTTACC	180
CTATCCCAGT	CAGGACTGCA	CACCTCATAT	TGAAAGACAT	ACCTTAGAAC	CAGACTCCCC	240
AAACCTTACA	AATATCCCAC	CCTTGACTCC	CGTTCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:558:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 474 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:558:

GCAATGGTCT CCAGGATGGT CTCTACCATG CTATCTGGCC TACTGTTTTG GCTGGCATCT

GGATGGACTC	CAGCATTTGC	TTACAGCCCC	CGGACCCCTG	ACCGGGTCTC	AGAAGCAGAT	120
ATCCAGAGGC	TGCTTCATGG	TGTTATGGAG	CAATTGGGCA	TTGCCAGGCC	CCGAGTGGAA	180
TATCCAGCTC	ACCAGGCCAT	GAATCTTGTG	GGCCCCCAGA	GCATTGAAGG	TGGAGCTCAT	240
GAAGGACTTC	AGCATTTGGG	TCCTTTTGGC	AACATCCCCA	ACATCGTGGC	AGAGTTGACT	300
GGAGACAACA	TTCCTAAGGA	CTTTAGTGAG	GATCAGGGGT	ACCCAGACCC	TCCAAATCCC	360
TGTCCTGTTG	GAAAAACAGC	AGATGATGGA	TGTCTAGAAA	ACACCCCTGA	CACTGCAGAG	420
TTCAGTCGAG	AGTTCCAGTT	GCACCAGCAT	CTCTTTGATC	CGGAAACACT	CGAG	474

- (2) INFORMATION FOR SEQ ID NO:559:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 290 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:559:

GAATTCGGCC	TTCATGGCCT	AATTTTTTTG	TTGTTGTTTC	CTTTTTGTAT	TTTACTGATA	60
TCACCAGGAT	AGTTTACTCT	CCTTCTAGCT	TTCTGCTTAC	CGCACACTGG	ATAACACACA	120
CATACACACC	CACAAAAATG	CTCATGAACC	CAATCCGGAG	AAGGTTCCAG	CAGGTCCCCC	180
ACCCTCCCCT	CCTCCTCCTA	CTTCTCCTCT	TGACAGCGAG	GACAGGAGGG	GGACAAGGGG	240
ACACCTGGGC	AGACCCGCCG	GCTCTCCCCC	CACCCCACCC	CGTCCTCGAG		290

- (2) INFORMATION FOR SEQ ID NO:560:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 361 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:560:

GTGTATGTGG	GGGGTAAGTG	TGTGTGTGTG	CGTGTGCGTG	TATGTGCACG	TGTTGTGTGT	60
GTGCGCCTGC	ACACGGAGAG	CCCACTCATA	CGTAGCAGAA	AATCAAATGG	CCCCAAATCA	120
GAAACATGGC	GCATGTGAGC	ATGCCACTTC	TTGTGTGCCT	GTGACTGTTC	AGAATGTACA	180
CGGCCCTGCA	GCTCCCGAAG	GCCAGCTCTG	CTGCAACCCC	TCCTCTGTCC	AACACAGTCC	240
TCACTGGTGT	CTTTTCCTCT	TCAAATCTAC	AGCATTTCTG	ATCTCTGCAA	ACAATTTAAC	300
CCAAAACCAA	GTTCTGGCTG	ACAAGGCTAC	ATCTTGTTTC	TTGTGCGTGA	TTAGCCTCGA	360
G						361

- (2) INFORMATION FOR SEQ ID NO:561:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 381 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:561:

GGCCCGAGGC	CGGGCTGCCT	GGTTTTATTT	TTATTTAACT	TTATTTTCTG	TTTTATGAGT	120
GTGTGTCCGC	CCACCCCCAC	CCCCTTCAGT	GTTAAGTGGG	GAGCCCTGGG	GGAGTCTCTC	180
CTGCCTCCCA	GCCTCTCCCA	AGACCTCCCC	CCTCGTCACC	AGCCATCCCT	CTGGACCAGG	240
CAGAGGGCGG	ACCGGGTGGG	CAGGGGCCTG	AGGGTGGCTC	GGGCCAGCCC	ACCAGCCAAT	300
GGACCCCTCC	TCAGGCCGCC	AGTGTCGCCC	TGCCCCTTTT	TAAAACAAAA	TGCCCTCGTT	360
TGTAAACCCT	TAACGCTCGA	G				381

- (2) INFORMATION FOR SEQ ID NO:562:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 317 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:562:

GCACTCATAA	AAATCTTACT	CAGAAATCTT	CAGAGGTTTG	CTAAGGATAC	AATTTGATTC	60
TTACACATTT	AATGCTCACC	AGCTGCTTAG	GCCCACACCA	TTTATCCACC	CTGATTTGCT	120
ACTGCTCTTT	GAAATACAAC	CAGTGTTTCA	GCCAGACTGT	TTTCCTGCTT	CTGCTCCCCT	180
TCTCCTCCTC	CCAGCACATC	TGTGAATTCT	TTGACTGGTT	TACCACTCCC	ACACTCCTCC	240
CCAGCAATGC	AGATCTTCTA	CACCCTTTAG	GATCTAAGCT	AAGTCTGCTT	CCCAGATATC	300
CTCCCGAACA	GCTCGAG					.317

- (2) INFORMATION FOR SEQ ID NO:563:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 472 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:563:

GAATTCGGGC	TTCATGGCCT	ACTTTAATGA	GATAGGAACT	AGTATATTCA	CCGTCTATGA	60
GGCCGCCTCA	CAGGAAGGCT	GGGTGTTCCT	CATGTACAGA	GCAATTGACA	GCTTTCCCCG	120
TTGGCGTTCC	TACTTCTATT	TCATCACTCT	CATTTTCTTC	CTCGCCTGGC	TTGTGAAGAA	180
CGTGTTTATT	GCTGTTATCA	TTGAAACATT	TGCAGAAATC	AGAGTACAGT	TTCAACAAAT	240
GTGGGGATCG	AGAAGCAGCA	CTACCTCAAC	AGCCACCACC	CAGATGTTTC	ATGAAGATGC	300
TGCTGGAGGT	TGGCAGCTGG	TAGCTGTGGA	TGTCAACAAG	CCCCAGGGAC	GCGCCCCAGC	360
CTGCCTCCAG	AAAATGATGC	GGTCATCCGT	TTTCCACATG	TTCATCCTGA	GCATGGTGAC	420
CGTGGACGTG	ATCGTGGCGG	CTAGCAACTA	CTACAAAGAA	GAAAACCTCG	AG	472

- (2) INFORMATION FOR SEQ ID NO:564:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 411 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:564:

GCCGCGATGT TCCCCCTTCG GGCCCTGTGG TTGGTCTGGG CGCTTCTAGG AGTGGCCGGA

60

TCATGCCCGG A	AGCCGTGCGC CTGCGTGGAC AAGTACGCTC A	ACCAGTTCGC	GGACTGCGCT	120
TACAAAGAGT T	GCGTGAGGT GCCGGAAGGA CTGCCTGCCA A	ACGTGACGAC	GCTTAGTCTG	180
TCCGCGAACA A	AGATCACTGT GCTGCGGCGC GGGGCCTTCG C	CCGACGTCAC	ACAGGTCACG	240
TCGCTGTGGC T	rggcgcacaa tgaggtgcgc accgtggagc c	CAGGCGCACT	GGCCGTGCTG	300
AGTCAGCTCA A	AGAACCTCGA TCTGAGCCAC AACTTCATAT C	CAGCTTTCC	GTGGAGCGAC	360
CTGCGCAACC T	GAGCGCGCT GCAGCTGCTC AAAATGAACC A	ACCACCTCGA	G	411
(2) INFORMAT	TION FOR SEQ ID NO:565:			
	TOVINIAN CULTI CONTINUES			
(1) S	EQUENCE CHARACTERISTICS:			
	(A) LENGTH: 270 base pairs			
	(B) TYPE: nucleic acid			
	(C) STRANDEDNESS: double			
	(D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:50	65:		
(22)	ongonica pasanii ixan. ong is no.s.	03.		
CACTCAGAAC C	CTCAGACTT TCAAAGAGCC AGGAAATCGG T	TTTAAAATTT	TTGAGATAAC	60
ATTAATTAAG C	CTTTTTGCAG TTTTTCCTAG GACCAGATTA A	ACAGAAGTT	TTCCTTTACA	120
GTATTCATTA T	GGTTGGTAT CTCCAGAGTT CATCCTTTTT T	TGTGGTACT	GGGAAAAGTT	180
GCAACATTTA C	CTTTGCAGG GACATGGATG GAGCTGGAGG C	CATTATCTT	TAGCAAACTA	240
	AAAGACAAAA ACCACTCGAG			270
(2) INFORMAT	TION FOR SEQ ID NO:566:			
(i) S	EQUENCE CHARACTERISTICS:			
	(A) LENGTH: 272 base pairs			
	(B) TYPE: nucleic acid			
	(C) STRANDEDNESS: double			
	(D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:50	66:		
	ACTAACGGCT CATCTTTTCC TTGTTTTTGT T			60
	AAAGGCCAAA ACTGGAACCA AGGATTTAAT A			120
	ATAGTGCCT ATGGTGGTGA TCAAAACTAT A			180
	PATAACTATG GGAACTATGG ATATGGACAG G	GATATGCAG	ACTACAGTGG	240
CCAACAGAGC A	ACTTATGGCA AGGCATCTCG AG			272
(2) INFORMAT	TION FOR SEQ ID NO:567:			
(4) 0	POHENCE CHARACTERIOTICS	•		
(1). S	EQUENCE CHARACTERISTICS:			
	(A) LENGTH: 306 base pairs			
	(B) TYPE: nucleic acid			
	(C) STRANDEDNESS: double			
	(D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:5	67 :		
GCAATGGCAG (BAATTCGAAA TATTGGCATA TGGTTCTTTT G	GATTAGATT	ATATAAAATC	60
	SAACCAGGCC CCAAGCACTC CTTTTCTCT G			120
	CTAGCTACAT GATTTATAGT CTTGCTCCCC A			180

CAAAATTACT TAATAGAGAC TAATATAACT TCTGATAATC ATAAAGGCAA TTCAACCCTT TCTGTGCCAA AGAGATGTGA TGCAGAAGGCT CCTGAAGATC AGTGTACTGT TACCCGGACG CTCGAG	240 300 306
(2) INFORMATION FOR SEQ ID NO:568:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:568:	
GGTGTTTGGC CACAGTTCGG GACCTATGGT AGAAAAATAC TCAGTAGCTA CCCAGATTGT AATGGGTGGC GTTACTGGCT GGTGGAGG ATTTCTGTTC CAGAAAGTTG GAAAACTTGC AGCAACTGCA GTAGGTGGTG GCTTTCTTCT TCTTCAGATT GCTAGTCATA GTGGCTATGT GCAGATTGAC TGGAAGAGAG TTGAAAAAGA TGTAAATAAA GCAAAAAGAC AGATTAAGAA ACGAGCTCTC GAG	60 120 180 240 253
(2) INFORMATION FOR SEQ ID NO:569:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 544 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:569:	
CACAGTGCTG GCTCACAACA AGATGCTCAA GGTGTCAGCC GTACTGTGTG TGTGTGCAGC CGCTTGGTGC AGTCAGCTC TCGCAGCTGC CGCGGCGGTG GCTGCAGCCG GGGGGCGGTC GCACGCGGGT AATTTCTGG ATGATAAACA ATGCTCACC ACAATCTCTC AGTATGACAA AATTCCCAGC TAAGGATCCA TCCTACAACACTT GGAGTCCAGG CGATGATAAA GTATGCATTG TAGATCCAGC TCAGACTCA TGCTTAAAGA TGAAATGTAG GCCTACACAA AGGATGCAA AACCCTTC AGGATGCAA AACCCATCA GATCGCAGCTT TAGATCCAGC TCAGACTTC TCGCACTTAAAGA TGAAATGTAG GCCTTACACAC AGGATGAAAG AACCAGAGTT AGACCATAGG CACTGGAGG GTCCCATATT ACCTACCTC AAGCAGTGCC CAGTGGTCTA TCCCAGCCCT GTTTGTGGTT CAGATGCAC AACCACACT TTTCAGTGCA AACTAGAATA TCAGGCATGT GTCTTAGGAA AACAGAATCT CGAG	60 120 180 240 300 360 420 480 540
(2) INFORMATION FOR SEQ ID NO:570:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:570:	
GAATTCGGCC TCATGGCCTA CATTAAAGAA AAGCTTCCCA CACATCCATT TGAAGCTGAT CTCCTTGAGA TGGCAGAAAT GATTGCAGAA GATGAAGAGA AGAAGACTCT ATCTCAGGGA	60 120

GAGTCCCAAA CTTCTGAACA CGAACTCTTT CTAGACACCA AGATATTTGA AAAAGACCAA	180
GGAAGTACAT ACAGTGGTGA TCTTGAATCA GAGGCAGTAT CTACTCCACA TAGCTGGGAG	240
GAAGAGCTGA ATCACTATGC CTTAAAGTCA AATGCTGTGC AAGAGGCTGA TTCAGAATTG	300
AAGCAGTTCT CAAAAGGGGA AACCCTCGAG	330
(2) INFORMATION FOR SEQ ID NO:571:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 312 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(b) Toronogi: Timear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:571:	
GAATTCGGCC TTCATGGCCT AAGGGAAAAC ATTTTGCATG TGTAAAGCTT CATGAAGTTC	60
TCTTTAAAAA ATACCAAAGC TTGTTTATTT CTGATAATTA ACCTAAGCCC TTATGAAAAT	120
AAACAAAATG AAGGGATTAT GACAGGTATT ACCAAAAACA CCAAAAGGAA CAAAGGGCC	180
TGCGTTAAAA CCTAATTGCT AATGCTTCAC AACTAGGAGA GCATGCCGTC TTGATGTTTA	240
AAAAACCCAG GGTCTCCACC CTTCCTTTGA TTTGTGCAAT TCTGTCTTCC ACAGTTCCGG	300
AGCTTACTCG AG	312
(2) INFORMATION FOR SEQ ID NO:572:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 391 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:572:	
GAAAATGTTC ATGGCCGCAG CAGGAGTAGA GGTCCTGAGC CTCCTATTTT TCTGCATCTA	60
CTGGGGTCAA TATGCCACCG ATGGCATTGG CAACGAGAGT GTGAAGATCT TGGCCAAGCT	120
GCTCTTCTCC TCCAGCTTCC TCATCTTCCT GCTGATGCTT ATCCTCCTGG GGAAGGGATT	180
CACGGTGACA CGGGGCCGCA TCAGCCACGC GGGCTCCGTG AAGTTGTCTG TCTACATGAC	240
CCTGTACACG CTCACCCATG TGGTGCTGCT CATCTACGAG GCGGAATTCT TTGACCCAGG	300
CCAGGTACTG TACACGTATG AGTCGCCGGC CGGCTACGGG CTCATTGGAC TGCAGGTGGC GGCCTACGTG TGGTTCTGCT ATGCTCTCGA G	360
SOCCIACOIO IGGITCIGCI AIGCICICGA G	391
(2) INFORMATION FOR SEQ ID NO:573:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 377 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:573:	
ankenien passiffs from PDA ID MA.212;	
GAATTCGGCT TCATGGCCTA AAAAAAACTC CAGAAAAAAA CAACAGCGCG GTGGTGGGGT	60
TTTGTTAATT TCGCCTTTTT TTTTTTTGC ACGCGCCACG AAATTCAGGC TGCGTTTAGC	120
TCCTGAGAAA TATCCAAAGT AATTGCAGAT TGCGGAGACG CACAGCATTA GTTCAAAAAA	180

AGGAACCTGC	ATTGGGGCAG GGTTAGGTGG AGGCACCGG AGGCTCTACA CAAGAAAAGC AAACCCACGT AGATTTCCAC TACAACCTTC CCTTTTCTTC TGGCTAGCCA TCCATGGCAC TGCATGGCAC AAGTTGCTTC TGATAGTCTT TTAAGTTTGC CCTCGAG	240 300 360 377
(2) INFORMA	ATION FOR SEQ ID NO:574:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:574:	
ATCCGGGGGC AACCGCAGAA CTCACGTGGG AACTATGACT	TTCATGGCCT ACAGCCTCAA GTCACTCCCA AGCCCCCTCC TTGTCTGTGC AGCTCTGGAG GGGGTTTGCT GGGGAACTGG CGCCATCGCC GGGACTCCAG GCCTCCCCAG CTCACCCCTG GAGGACGGCC GGCTCTCTAT AGCACCAGGG AACCCCCCTC CCACCCTCGC GAGTCTGTTT CCAAGGAGGA GAAGGAGCAG TAACTGAAGT CTCACAGAGCC ATGAAAGCTT TCATATCCAA AGTCTCAACC CAGAGCTGCC TCGAG	60 120 180 240 300 325
(2) INFORMA	ATION FOR SEQ ID NO:575:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 438 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:575:	
CCACACCCG CGTGTGCTTT GAAAGATCCA CACAGCCTCC TTAAGTAAAA	TTCATGGCCT ACTCAGCCTC CCTAATAGCT GGGATTACAA GCGTGAGCCA CTGGGAAATAA TCTTAAAAGA ATCAAAAATAA GAAAGTTACT CTACTTAAAT TTCTGTGTGT GATTTATGGT AATCTTACCA TGGGGTATCT GATTACTTA TTTAGCTTAT TTTTTCTTC TTTGGGTTAT TTTTTCTTC CTTCCATTTG CCCCAAATAA AAAATAAAGA TATAAAGTCT ATCTTCTCC TCTTGCAGT AGAACTTTTG CTTCCATTTT AATAATAGA TTTGTGTGTA TATAATATAG GGCCTCAAGC TGAGTTTAGA TTTGAAAAGA TGAGAATATT AAAGCTTGTC CTCTCGAG	60 120 180 240 300 360 420 438
(2) INFORMA	ATION FOR SEQ ID NO:576:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 510 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:576:	

60 120

GAATTCGGCC TTCATGGCCT ACTGTNTTCC ATAAAGGCTG TACTAATTTC CATTCTCACC AACAGTTCAC TAGGGTTCCC TTTTCTCCAC ATTGTTGCCA ACATTCTTTA TCTTGTGTTT

NTTAATAACA	GCTATCCTAA	CAGGTATGAG	GTGATCTCTC	TCATTGCGGT	TTTGATTTGC	180
ATTTCCCTAA	CGGTTGGTGA	TACTGAGCAT	TTTTGCATAC	ACCGGGTCAT	TTGTTCTTTG	240
TTGTTGACTT	GAGTCCCTTA	TATAGTTTGG	ATACTGCTGT	GGCCTGAATG	TTTGTGTCCC	300
CCAAAAATTC	GTATATTGAA	CTCTCATCCC	TAAGGTCAAC	AGTTTAGGGA	AGCGATTAGG	360
TCCTGAGGAC	TCTGCCCTCT	TGCATAGAAT	TAGTGCTCTT	ATAAAAGATG	CCCGAGGGAG	420
CTCTTTTGCC	CCTCCTGCCA	TGTGAGGACA	CAGCTAGAAG	CTACCATCTG	TGAACCAGGA	480
AGCCCCCCTC	ACCAGACACT	GTATCTCGAG				510

- (2) INFORMATION FOR SEQ ID NO:577:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:577:

GAATTCGGCC TTCATGGCCT AAAAAATAA	а аатаааатат	ACAACCAAAG	GCAGTATTCA	60
CAGAGGTATT TCTTGGGAAT AAAAGAAGG	A ATATAGTCAT	TCCTTGGTAT	TCTCTTTGGT	120
GTCCAGAGTT ACTTAAAAAT TCTTGGTGT	T TATTGCCTTT	TAGTCACAGG	GATACACCTT	180
TTATTCATTT ATTTATTTAT TTACCAGTC	T CATTTAGCAG	TAGGAATGCA	TCTTAGCATT	240
TTTATACTGC TGCTCAACAC AGTGCTTTC	A CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:578:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:578:

GAATTCGGCC	TTCATGGCCT	AAATCCTTCC	AGATGTCCTG	TGAAAATGTT	TGAATGCTAC	60
TTGTCTAAAA	GTCCACAGAA	TCTTAATCAG	AGGATGGATG	TTTTTTATTT	GCAACCAGAA	120
TGCTCTAGTT	CTACAGATAG	CCCTGTCTGG	TATACGTCTA	CTTCACTGGA	CCGAAACACC	180
TTGGAAAATA	TGCTTGTACG	GGTTCTTCTA	GTAAAAGATA	TTTATGATAA	AGACAATTAT	240
GAACTGGAGG	AAGACACTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:579:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 439 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:579:

GAATTCGGCC	TTCATGGCCT	AATTTAGGAC	CATTTAAGAG	AGTTTGACTA	AGAAAGAGCT	60
GTTTGAAACC	TCCTGGCTTA	TGTATTTTTA	GGGGTGTGGT	GATCGAGGCT	TTCTCCTCTG	120
AGTAGAGTTT	GTGCATTTGC	AGTATAAGAT	TATCATTATC	AAACATTCCT	ACTAGGCCTT	180

TCTCCTCAGC	CCCTAAAAAA	ATATGTATAG	TAATGAAGTA	GGAAGATCAT	GTTTATATTT	240
GACTTCACAA	ATTCCTCAGG	CTAAGTTGCT	TTCTACTGGG	GTGTGGCTGG	AGACAAAAAT	300
TACAGGTAAG	ACTTGACTTA	ATTTTTGATA	GGGAGGTTCT	TAAGAGGCTT	TTTCGGAATC	360
ACTCACCTCG	CCCACTTCCA	TGCAGGGATG	TGGTGAGAGC	CCTTCAGTCT	ACTTAGGAAA	420
ACCTGGCACA	TGACTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:580:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 346 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:580:

GAATTCGGCC TTCATGGC	CT AGATATTCTC	AGGGTCATCA	AGACTCCTGA	GATAGCAAAC	60
TTGGCCTTGC TTGGCTTT	GG AGATATCTTT	GCCCTGCTGT	TTGACAACCG	CTACCTGTAC	120
ATCATGGACT TGCGGACA	GA GAGCCTGATT	AGTCGCTGGC	CTCTGCCAGA	GTACAGGAAA	180
TCAAAGAGAG GCTCAAGC	TT CCTGGCAGGC	GAAGCATCCT	GGCTGAATGG	ACTGGATGGG	240
CACAATGACA CGGGCTTC	GT CTTTGCCACC	AGCATGCCTG	ACCACAGTAT	TCACCTGGTG	300
TTGTGGAAGG AGCACGGC	TG ACACCATGAG	CCACCAGCCG	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:581:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 740 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:581:

CGGCCGACTT CTTTGCCACT TGCTATTTTA TTTTCTAGGT CTTTGTGCCC CGTATTGTGT 120	-
	0
GCTGAACTCC NGTCTCATCC TGTGACTAAG ATTGCCTAAC CTCCTGGGAA TGCAGCCCAG 180	
TAGATCTCAG CCTTACTTTA CCTAACCCCT TTTCAAGATG GAGTCACTCT GGTTCAAACA 240	D
CCTCTGACAT TCGCAGTGGA ATCCATTAAA AGATGTTAAG GAGATATGAT TATATTTCTA 300	D
AATTGTCACT CCAGCATCCC CTACGCCAGA CATTATGCCA GTCTCTATCC ATACAGTATC 360	0
TCATTTAATC CTCCCGTCAT TAATCTCATT TTACCAATGA GTAAACTTGA AGCAAATGAG 420	0
TGACTTTCTC AAGGCTACCT ACTTACGCCT TACCAGGGCC AGGATTCAAA CCTAGACTTG 480	0
TTCAGCGACA GAACACACC TTAACCATCA CCCACTTAGG CCATGAAGGC CGGCCTTCAT 540	0
GGCCTAAACT. GCTGTTATTT TGGATTATAT GGAGTTATGA AAATCTAAAT GTTTTACAAA 600	D
GTTAAAAAGT ATTCTTTTTT TGCTCACTTA TAACTCAAAA ATCACTAAAG TCATTCTGCT 660	0
AAACATGCCA CGAAGCCAAG CTTCTTGCCA TATGTCTGCA TAATTTTATT AAATCACTGC 720	0
TATTGACGTG CAACCTCGAG 740	0

- (2) INFORMATION FOR SEQ ID NO:582:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 491 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:582:

GAATTCGGCT TTCATGGCC	T ACAAAGGGGT	AGCAAGGCAT	GTCTTACATG	GTGGCAGCAG	60
AGAGAGAGAG CAGGGAAAA	C TGTCATTTAT	AAAACCATCA	GATCAGTTGG	GTTGTGCAAA	120
TGGTGGAGAA GAAAACTTC	A GGAAGAGTGC	ATAGACTGAG	CAGAGAAGAG	GACCAGCTAC	180
CTCCGTAGAG GCAGGGAGA	G CAGCCAAGCT	GGAGCCTGAG	CAGCATTGCT	GGACATGGAG	240
AAGGTCTGGA ATCTTGTCA	A GGAAGCAAGC	AAAGGGTTTC	TTTCTATTCA	ATGAAGTCCA	300
CTCCCAGGAC CCTGGGCAG	C AACGGGTGCT	GGACTGGGCC	ACCTGGCAGC	GTCACATCAA	360
CTGGCAGCTA GAAGTCCTG	G AGAATGACAA	CTTCCAGGAC	GACCCCCATG	TGGGACTCCC	420
TCAGCTCAGC AAGAGACTG	C CACAGTTCGA	TGATGATGCA	GACACCAGAC	AGTAAAAGAA	480
GAAAACTCGA G					491

(2) INFORMATION FOR SEQ ID NO:583:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 566 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:583:

GAATTCGGCC	AAAGAGGCCT	AAACAGTCCA	GAGAGGCATA	AATCAGACCC	AGTTCCTAGC	60
TGGCTTGTCC	TTATCAAGTA	AATGGAAAAG	GGGCCAGGCC	AAAGCAGGGC	AAGATGACCT	120
TGGACTTGGG	AGAGACTTGG	ACTCATGCCA	CAATCCTAGG	GTGCCCACTG	GACCATTGCT	180
TTTCTGAGTT	TTGTAGTCAT	TCGGTGTCTG	AAGTAAGGTA	GATTGAAGTG	AGGCCTTCGG	240
TTTCCATCTG	GACCCTTTCT	CTCCTGTTTT	CTTTTTTTCC	GCCTTGTCCT	AGGGATGTTC	300
AATAGCCCAG	AAATGCAAGC	CCTCCTCCAG	CAGATCTCTG	AGAACCCCCA	GCTGATGCAG	360
AATGTGATCT	.CAGCACCCTA	CATGCGCAGC	ATGATGCAGA	CGCTTGCCCA	GAACCCCGAC	420
TTTGCTGCTC	AGATGATGGT	GAATGTGCCG	CTCTTCGCGG	GGAACCCCCA	ACTGCAGGAG	480
CAGATCCGCC	TGCAGCTCCC	AGTCTTCCTG	CAGCAGATGC	AGAACCCAGA	GTCACTCTCC	540
ATCCTTACCA	ATCCCCATAC	CTCGAG				566

- (2) INFORMATION FOR SEQ ID NO:584:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:584:

GAATTCGGCC	TTCATGGCCT	AGTTGAAAAT	GATCATTACA	CAATATATTC	CTAAACATAA	60
ACTGAGTAAA	CTTGAAACAG	CTCACTGTGT	GGAGAGGACC	ATTCCCGTTT	TGCTCACCAG	120
AACTGGAGAT	TCTTCTGCCC	GCCTCCGCGT	CACAGCTGCA	AATTTTATTC	AGGAAATGGC	180
CTTGTTTAAA	GAAGTTAAGT	CTCTCCAAAT	TATTCCATCC	TACCTGGTGC	AGCCATTGAA	240
AGCAAACTCT	TCAGTTCACC	TGGCAATGAG	TCAGATGGGC	CTCCTGGCCC	GGCTGCTGAA	300
AGACCTGGGC	ACTGGCAGCT	CGGGCTTCAC	CATTGACAAC	GTGATGAAGT	TTTCAGTGAG	360
TGCCCTGGAG	CATAGAGTGT	ATGAGGTCCG	CGAGACGGCG	GTTCGAATTA	TTTTGGACAT	420
GTACAGACAG	CACCAGGCTT	CCATCCTGGA	GTACCTTCCT	CCAGACGACA	GCTAATCTCG	480
AG						482

(2) INFORMATION FOR SEQ ID NO:585:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 265 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(b) TOPOLOGI: TIMEAL	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:585:	
GAATTCGGCC AAAGAGGCCT AATAAAGGTG TGGAAACTTC ATTCATTCAT ATC	CTTCAACA 60
CAAATTGTAG GTAGCCTGTT TTTTAAAACA TTTATTCAAC AAATATTTAG TCC	
TATTACTTAC TACCTTCTCT ACTATTGTAT GGACTTTTAA CTATCTCTGA CAC	
TATTCTTCCA CATTCTCTAT TATTTATACC TATGGTAAAA TTTGCCAGTT TGA	CCATACA 240
ACTAATACTC ACAGGGACAC TCGAG	265
(2) INFORMATION FOR SEQ ID NO:586:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 120 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:586:	
GAATTCGGCC AAAGAGGCCT ACTCGAGTTT GGTGCTTTAT TTAGCAAGTG AGT	AAAAATA 60
TTGGAATATT TAAGTATTTG CATAAAAAAT CAAATGGTAG TGTTTTGTAA TCT	
(2) INFORMATION FOR SEQ ID NO:587;	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 503 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(b) TOPOLOGI: Timear	
(ii) MOLECULE TYPE: GDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:587:	
GAATTCGGCC AAAGAGGCCT ACTCGAGTCA GGTCTAGAAT TCAATCGACG GTT	TAGGAAA 60
AAGACAATTT AAGAGAAGAA CTAAAGAAAA GAACAGAAAC TGAGAAGCAG CAT	
CAATTAAACA GTTAGAATCA AGAATAGAAG AACTTAATAA AGAAGTTAAA GCT	
ATCAACTAAT AGCTCAAGAC GTTACAGCTA AAAATGCAGT TCAGCAGTTA CAC	
TGGCCCAACG GATGGAACAG GCCAACAAGA AATGTGAAGA GGCACGCCAA GAA	AAAGAAG 300
CAATGGTAAT GAAATATGTA AGAGGTGAGA AGGAATCTTT AGATCTTCGA AAG	GAAAAAG 360
AGACACTTGA GAAAAAACTT AGAGATGCAA ATAAGGAACT TGAGAAAAAC ACT	
TTAAGCAGCT TTCTCAGGAG AAAGGACGGT TGCACCAGCT GTATGAAACT AAG	
AAACGACTAG ACTCACTCTC GAG	503
(2) INFORMATION FOR SEQ ID NO:588:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 567 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:588:

GCCACTATGG	TACCAAAACC	TCAGTCTTCA	CATAGTCAAA	CTTGGACACA	AACAGCACCT	60
CCCACAAACA	TTCTTATCCT	CATCCCAGCA	TTGGTTACTG	ACCACACACT	CTAGCAGGTC	120
ACTCAAGCGC	TAATGCTGGG	AAGGACCTCT	GAATACTTCT	CTTTGTCTTG	TGCCACACAG	180
CCAGGGTCAC	CAAAGCCTGT	TAATGCTACC	TCCAAAAAAG	GCAAATCTGA	CCCCTCTTCC	240
TCAAAACCCA	GCCACATAGT	AAGTTCAAGG	ATTCAGTCAC	AGGTCTGCCT	TAGTGCACTA	300
GCCCTATAAC	AGTAAACTAT	TCACTTCCCC	TCCAGTCCCT	TGCCCCCTTT	CAAGCAATTT	360
			AATTAGCTAA			420
ACTGTCCCAA	TTTAAATAAA	TAATTCCTTC	TTTAGCATGG	TATAAAAAGG	ACACAACAGA	480
GTTTGGTCTA	GTGTCCTTTT	AAAGACACTA	GATTTCTCAT	CACCATACCG	CATGTACCCT	540
ATACGACTTA	TCAATTCCCT	ACTCGAG				567

- (2) INFORMATION FOR SEQ ID NO:589:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 138 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:589:

GAATTCGGCC	AAAGAGGCCT	AGGCATGGTG	AGTTTTGATC	TTCTTCCCCT	TCTTTTCTTC	60
CCCTTCTTCT	TTCCTTCTTT	GATCTTCTTC	CCCTTCTTTT	CTTCCCCTTC	CCCTTCTTTT	120
CAATTTCTCC	CACGTCAA					138

- (2) INFORMATION FOR SEQ ID NO:590:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 420 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:590:

GAATTCGGCC	AAAGAGGCCT	AGAGAGAATG	GAAAAGATAA	GGAACAGAAA	CAAACAAATA	60
CCGATAAAGA	AAAAAATAAA	AGAGAAAGGG	AGCTTCTCTG	ACACAGGCTT	GGGTGATGGA	120
AAAATGAAAT	CTGATTCTTT	TGCTCCCAAA	ACTGATTCTG	AGAAGCCTTT	TCGGGGCAGT	180
${\tt CAGTCTCCCA}$	AAAGGTATAA	GCTCCGAGAT	GACTTTGAGA	AGAAGATGGC	TGACTTCCAC	240
AAGGAGGAGA	TGGATGATCA	AGATAAGGAC	AAAGCTAAGG	GAAGAAAGGA	ATCTGAGTTT	300
GATGATGAAC	CCAAATTTAT	GTCTAAAGTC	ATAGGTGCAA	ACAAAAACCA	GGAGGAGGAG	360
AAGTCAGGCA	AATGGGAGGG	CCTGGTATAT	GCACCTCCAG	GAAAGGAAAA	ACCGAGGCAG	420

- (2) INFORMATION FOR SEQ ID NO:591:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 611 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:591:

GAATTCGGCC	AAAGAGGCCT	ACATTGCTTT	TCAAATAACT	ייים א הא ה	CCTT N TO CTC C	
						60
		ATTGCCAAGA				120
AGTGAAATTA	ACCAAAGATG	AAGCTTTGGC	TTTGCTGGTG	AGATCAGAGC	CCTCCTGAGC	180
AGGCAGCGCC	ACTCCAGGGT	TCAGACAGGG	CTGCACAGGC	GGCAGAGATA	CAGGGTCTGA	240
GGGCTGAGAC	GCCATGGGGC	CGCTGCTGCT	TATGTGGTTG	GATTGTTTAC	AAGCCTCATT	300
ATTAAAACTG	AAGGCATTTT	TTTTTTTCTG	CTGCCTTTCC	CAAAGTGGTT	AGGTTTGGAA	360
AAGAGATGAT	GATGGTAATA	TTTATTTGTG	CTTTTTAAGC	CATTTCCCCA	AATGGGACTA	420
GCATGCTTGT	TTTCAGTATA	CCGTGGCCTG	CCTCATGATG	GTTTGGAGAT	ACTGTCTGTG	480
		TTCATTGTCC				540
		GGAGGGTCTG	CCAAGCTACT	GCAACATCTG	TCACCCACTA	600
NACCCAGACC	T					611

- (2) INFORMATION FOR SEQ ID NO:592:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:592:

GAATTCGGCC	AAAGAGGCCT	AATTGAATTC	TAGACCTGCC	TGAAACCTGT	CCCTCCTAGG	60
AAATTGAATA	GCTTGAGTTA	CGAAGGAACT	GCATGGGACA	GACTGAGTTT	TGTTCCTCTC	120
TTCCCTGGAA	GCTGGATGTC	CTTTACAGCT	TTGCCCAGTA	TGTCATGTGG	CCCCTGAAGT	180
ACATAATCCA	GAGTGGACTG	CCTTTCAGGG	TCCCTCAGCT	GTGAAAGTGG	AGCATTCATA	240
TCAAGACTAC	ATCTTTCCTG	TTCAGCTTTC	TTCAGCCTTG	GAGGAACCAC	ACACAATGGA	300
TCCAAGACTT	CTGTCCCTTG	CTAATTATCT	ATAAGAAGTA	AACCCATTTC	ACATAACTTG	360
TGAATATGTT	TTCTTTCACT	GGATTTTGGC	AAATAGGTAC	CCAGTGCATG	GTGGACCTAC	420
ACAGTTAGGC	CTCTTTGGCC	GAA				443

- (2) INFORMATION FOR SEQ ID NO:593:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 441 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:593:

GAATTCGGCC A	AAGAGGCCT	AAAAGCATTC	AGTATTGGTA	AAATGAGTAC	AGCTAANCGA	60
ACTTTAAGTN A	AAAGGAGCA	GGAAGAATTA	AAGAAAAAGG	AGGATGAAAA	GGCAGCTGCT	120
GAGATTTATG A	GGAGTTTCT	TGCTGCTTTT	GAAGGAAGTG	ATGGTAATAA	AGTGAAAACA	180
TTTGTGCGAG G	GGGTGTTGT	TAATGCAGCT	AAAGAAGAAC	ATGAAACAGA	TGAAAAAAGA	240
GGTAAAATCT A	TAAGCCATC	TTCAAGATTT	GCAGATCAAA	AAAATCCTCC	AAATCAGTCT	300
TCCAATGAAA G	ACCACCATC	TCTTCTTGTG	ATAGAAACCA	AAAAACCTCC	ACTTAAAAAA	360
GGAGAGAAAG A	AAAGAAAAA	AAGCAATTTG	GAACTCTTCA	AAGAAGAATT	AAAGCAAATT	420
CAAGAGGAAC G	TCGACTCGA	G				441

- (2) INFORMATION FOR SEQ ID NO:594:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 562 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:594:

GAATTCGGCC	AAAGAGGCCT	AAGAAAACCT	AGCTAATAAA	GAAAAAGCTG	TTGCTCAAAT	60
	ATCTCAGAGT					120
	GAGATAAACA					180
	AGATCTAGAG					240
	GCAAGAGAAA					300
	ATGAAGAGCA					360
	GCCAAGGAAA					420
	GAAGACTGGG					480
	CTTCTTTCTA		GAGGAGACAT	CTTCGGGAAA	GAGTGGAGCT	540
ATTAGAAAAA	GAAAATCTCG	AG				562

- (2) INFORMATION FOR SEQ ID NO:595:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 426 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:595:

GGAAGAGCAG	AATTTGGTGG	CTTATCCTCA	TGATGGAAAA	ATCTTTTTCT	GCACCTCACA	60
AGATATCCCT	CCTGAAAATG	AACTGCTTTT	TTATTATAGC	CGAGATTATG	CTCAACAGAT	120
		ATGTGCATCT				180
		TGACCAGCCA				240
		GTCACAGCAA				300
		CCAAACTTCA				360
	TGTGATTTCT	GTAGCAAGGC	TTTTAGTGAT	CCCAGCAACC	TGCGAACCCA	420
CTCGAG						426

- (2) INFORMATION FOR SEQ ID NO:596:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:596:

GAAAAATCAG TCGACTGAAT	GACACCATCA	AATCTTTGAA	ACAACAGAAG	AAACAAGTGG	60
AACATCAGCT GGAAGAAGAA	AAGAAAGCAA	ACAATGAGAA	ACAGAAAGCT	GAAAGGGAGC	120
TAGAGGGTCA AATCCAGAGA	TTGAACACAG	AGAAAAAGAA	ACTAAATACG	GACCTGTATC	180

ACATGAAACA	TTCTCTCAGA	TACTTTGAAG	AAGAGTCCAA	GGATCTGGCC	GGCCGCCTGC	240
AACGTTCATC	GCAGCGTATA	GGAGAGTTAG	AGTGGTCTCT	CTGTGCTGTC	GCCGCCACAC	300
AGAAGAAGAA	GCCGGATGGG	TTCTCGAG				328
(2) INTECDM	TO DO DE	O TO MA CAS	,			

- (2) INFORMATION FOR SEQ ID NO:597:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 529 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:597:

GAGAAGTGCG	AGAGGGGCCA	GTGTTGTTGT	TACCTGAAAG	GTAAGTGCAG	CCCACAAAAA	60
TGCAGTGAAG	AAGAAGATAT	ATGCATATGT	TTAAGTTAAT	ACAATTGAGA	TACATTTAGC	120
AGACAGAATC	AATAGAGTTG	ATGAGTGACT	GACTGGATGT	GTGGGGAGTT	TATATCACTC	180
CCAGGTTTTT	GACTTGGGCC	ACCGGGCACT	CAAGAAGGAA	AAAGAGGATC	CAGGGAGAGG	240
		TAGGGCTGAA				300
CTGGGCATGG	GATGCACAAA	TGGAAATTCC	ACTGGGTCTG	CAGCTCACAC	ATAGGCATGA	360
CCAGCATAGA	GATAGAGAGG	CCCCAGTGCT	GCTGAGTAAC	TGTGATTCCC	CAGGTGATGG	420
		AAGCCCATGT			GAGCAGACAA	480
TAAGAAGCCC	ACAGAAGACA	GAGAAGGAAC	AACTAGAAGG	AGGCTCGAG		529

- (2) INFORMATION FOR SEQ ID NO:598:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 454 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:598:

GAAAAAGATG	AAATCTGATG	GATTAGGAGC	ATCTGGACAT	TCGTCAAGTA	CCAATAGAAA	60
TAGTATAAAT	AAAACTCTGA	AGCAAGATGA	TGTAAAGGAA	AAAGATGGTA	CAAAAATAGC	120
ATCTAAGATT	ACAAAAGAAC	TTAAAACTGG	GGGAAAAAAT	GTTTCTGGAA	AGCCCAAAAC	180
TGTAACAAAA	TCCAAAACAG	AAAATGGTGA	TAAGGCACGG	TTGGAAAACA	TGTCACCTAG	240
ACAAGTTGTA	GAAAGATCAG	CAACAGCAGC	AGCAGCAGCA	ACTGGACAGA	AGAATTTACT	300
AAATGGAAAA	GGAGTGAGAA	ATCAGGAAGG	GCAAATTTCA	GGTGCCAGAC	CCAAGGTACT	360
CACAGGAAAC	TTAAATGTGC	AAGCCAAAGC	AAAGCCTTTG	AAGAAAGCTA	CAGGGAAGGA	420
TTCACCATGC	CTCAGCATCG	CAGAACCCCT	CGAG			454

- (2) INFORMATION FOR SEQ ID NO:599:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 411 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:599:

GAATTCGGCC	TTCATGGCCT	AGGTCCTCAA	GCATTGCTTC	AATATCAATA	TCGTCTGCCA	60
TTTTCTCTAA	ACGCCTGTTC	CGGCCTTCGG	GCGCCTGTGG	TGCTCGTGTT	CGGGAAGAGA	120
TTGCTGCTGC	TGCTGCTGCT	GCTGCCGCCG	CCGCCGCTTC	TGTTGCTACT	GTTAAGCCCC	180
TAGGCCCAGG	CCGCGGAACC	GCCCAGCCCG	AATATCGGGT	TCCAAGGACG	GCTAGGCCCG	240
AGAGAATCTA	АААААААСАА	TGGAATTAGA	GAAGCCCACG	CGGGAGAGCA	GGACGGCGC	300
				GTTCCCTGAA		360
CTGCTTCCCT	GTACTCANAN	TCCACCCCCC	GAATTCTAGA	CCTGCCTCGA	G	411

- (2) INFORMATION FOR SEQ ID NO:600:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 306 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:600:

GAATTCGGCC	TTCATGGCCT	AATTAAGCCT	GCCTACTTCT	ACAATGCATT	CTGTTACCTA	60
TTTGAACAGT	ATGTTTGTAA	CTATGGCAAT	GAAGTCAGTA	GATAGGAAAC	CAGTTATTCC	120
					ATCTTGAACA	180
GAGTCCCTAA	AGCTAGTCTA	GTTTTTGCCA	CATCTGCAAT	GATTATTGTT	TAATTTCAAA	240
AGAATCCTCA	GGCTCTACAA	TCTAGGGGTG	GTAAATGTGT	TTCCACTATA	CTTGGGACCG	300
CTCGAG						306

- (2) INFORMATION FOR SEQ ID NO:601:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:601:

GAATTCGGCC	TTCATGGCCT	AGGAATCTCC	TCTTAAACCA	GGTGAAGTGG	GAAAGCAGGG	60
ACCATACCAC	CCTGAGTGAC	ATCTACCTGA	ATAATATCAT	TCCTCGATTT	GTACAAGTCA	120
GCGAGGACTC	AGGAAGACTC	TTTAAAAAGA	GTAAAGAAGT	CGGCCAGCAG	CTCCAAGATG	180
ATTTGATGAA	GGTCCTGAAC	GAGCTCTACT	CGGTCATGAA	GACATATCAC	ATGTACAATG	240
CCGACAGCAT	CAGTGCTCAG	AGCAAACTAA	AGGAGGCGGA	GAAGCAGGAG	GAGAAGCAAA	300
TTGGTAAATC	GGTAAAGCAG	GAGGACCGGC	AGACCCCATG	CTCCCCTGAC	TCCACGGCCA	360
ACGTTCGCAT	TGAGGAGAAA	CATGTCCGGA	GGAGCTCAGT	GAAGAAGATT	GAGAAGATGA	420
AGGAGAAGCA	CCAAGCCCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:602:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 585 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:602:

GAATTCGGCT TCATG	GCCTA CAACATGTCA	GTTTTTTTT	TCATTTTCCT	CAATATTTTT	60
CTTCTNGCTT TCTCTT	CTCC TGGTTCCCAG	CCTCTACTCA	ATAGTCCCCC	CAGCTTTGTG	120
TGCTGGTCTC GGGGCT	ITCAT GGAGATGAAT	GGGCGGGGG	AGTTGGTGGA	GTCACTCAAG	180
AGATTCTGTG CTTCCA	ACGAG GCTTCCCCCC	ACTCCTCTGC	TGCTATTCCC	TGAGGAAGAG	240
GCCACCAATG GCCGGG					300
GTGGTACAAC CTCTTA					360
GCCTCCTGGG TCTCAC					420
AGGTGGCTTC GTCCTC					480
GTACAACAGC TGGTGG				TCCAGCTGAC	540
AAAGCAGAGC ACATGA	AAGCG ACAAAGACAC	CCCACACATC	TCGAG		585

- (2) INFORMATION FOR SEQ ID NO:603:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 368 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:603:

			TAAGGTGGAG			60
GCTCGGGGGA	GGTGGTGTTG	GGGGCCGCAG	GCTGCGCGGT	GCCTGGGTAC	ATCTCCAGGC	120
CCACGCCCCG	GGCTTGGGAA	GTCACATCCA	TGTCTCTGCG	CCGTGCAGCT	TTCAAGATTT	180
			TGGTGAATCC			240
TTCTCCTTGA	AGTGAGCCTG	GCATTTGTCA	GACAGGAAAC	TCCCCAGGAG	GAGCACCTGT	300
GGTGGTTTGG	GTTGGGTTTG	TTAACTGCAG	AGAGTGGGAA	GAACAGATGC	TCCTCACACC	360
GTCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:604:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 604 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:604:

GAATTCGGCC TI	CATGGCCT AGGAAAG	ACC ATCAGCCTGC	GAGTCAGTGA	ACCTGACTCT	60
GATCCCAGCT CT	GCCTCCAN TCAGCTG	TGT GATGACAGGT	AGGTCACCTT	CCCTCTCTGA	120
GCCACAGTTT AT	CTGTCTGT AAACAGG	GGT ATTGGACTGO	ATTCTCTGTT	ATCTCTCATG	180
TCTCTGTGAA AC	GTCTGTGT TTTCAAA	TAC TCCTTAGGGA	CATGACCTCA	CATAGAAAGA	240
GGGGGTGCCA CG	BAACTGGAT TCCCAGC	ACT CCCCCTTCCC	AGCTCTGCTC	AAGCTGAGGG	300
ACCTTGGAAC AT	GGTACTTG GACCTAA	GTA CTCTCTCTG	GCTTCAGTGT	CCCCAGCTAT	360
AAAATGGGGG AA	ATGCCTAA CTCAGGA	GGT TGAGGTAAGG	ACAAAAGGAA	TTAATACATG	420
GAAAGTGCCT GG	BAACAGTGC CTGGCAC	AGT CTGCTTTCAC	AAAAAGCTGC	AAGGTGGCTA	480
CTCTCAGCAG AT	TATAAGTTA ATGCAGG	AAC AGCAACTAGO	AGCTCTTGGA	CATGCAATAT	540
ATTATATATT TT	TTTGCATCT TTTACCC	TTC ACGCCACTGA	GCCTCACAAT	CCGTTGACCT	600
CGAG			•		604

- (2) INFORMATION FOR SEQ ID NO:605:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 495 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:605:

GCGCAGCCAG	CGCCTGCCTC	CGACTCGACT	CCACACCTGC	TTGCTACAGC	GGGTGAGGAA	60
GCAGGAAAGG	GGGAGGGAGG	GATGTCGTCT	GGATTCCTGT	AATAATTTGT	TTCATTGTTT	120
CCAATCGACT	TAGTCACCAG	GTTAAATAGT	AGCATAGACC	TTTCAAAAAA	GTAGCTAGCT	180
TATAAGTAGA	TGTATTGAAA	ACACCTGCTT	GTTGAGTCGT	AGACAATTCC	TCATTTACTG	240
TGTGAACTCT	AGGGGGTGAA	ACACGGGCGG	AGAGCGGCTG	TGAGCTCACG	CGGCTCCATC	300
CCCACAGCGG	CCCAGGGTCA	CTCGGGGCCA	TTAATCAGGC	CGCAGAGCTG	CCCTCTGAGC	360
			AGGGCTCCCT			420
CACAGGGACA	AAGGAAAGGA	AAGACGCTGG	GGCCCAAGCC	CGAGCTTATG	AAACGTTATC	480
AAGGAGCGAC	TCGAG					495

- (2) INFORMATION FOR SEQ ID NO:606:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 331 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:606:

GAATTCGGCT	TCATGGCCTA	GACTTCCAAG	GACATGCTTC	GAACTCTGGC	CCAAGCCAAG	60
AAGGAATGCT	GGGATCGGTT	CCTCCAGGAG	AAGTTAGCTT	CAGAGTTCTT	TGTGGATGGA	120
CTTGATTCTG	ATGAGAGGTG	ACTACAATTG	CAAAGTAGAA	TTTGCTTTGA	CACCTGATGC	180
CAGGACAATA	GTATGTTACC	ATCCTTCTAT	AGACATTCCA	TATGAACGCA	CAAAACCTAT	240
CCCTTGACCA	GATCCTGTGT	ATAATAATGA	AGAAACACAT	GGTCAAGTGC	TGAAAACTAG	300
AGAAGAAAA	AGTGAACACC	TGGAGCTCGA	G			331

- (2) INFORMATION FOR SEQ ID NO:607:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 632 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:607:

GAATTCGGCC	TTCATGGCCT	ACTGCCTCGG	CCTCCCGAGT	AGCTGGGACC	ACAGACGCCC	60
ACCACCATGC	CCGGCTAAAT	TTTTGTATTT	TTAGTAGAGA	CGGGTTTCAC	CGTGTTAGCC	120
AGGATGGTCT	CGTTCTCCCG	ACCTCGTGAT	CCGCCCGCCT	CGGCCTCCCA	AAGTGCTGGG	180
ATTACAGGCG	TGAGCCAACT	CGCCCGGCCA	GGAATCCCTC	CTCTGTCTGA	CCTAACTGCC	240
CTCTGCCCTG	GAGCTGCTCA	GCCTCTATCA	ATTTTTCTGG	CTCTCAGCGA	ACGTTTTCAT	300
TCAGTTGCAA	GACACAGAAA	CTCAAATTCA	AACCTGCTTA	CACAAAATAG	TGAATGTACT	360
GGCTCATGCA	CTTTTTAAAG	AGATGAGGTC	TGTTGTGCTG	CCCAGGCTGG	ATGTGAACTC	420
CCGGGCCCAA	GAAATTCTCC	TGCCTCAGTC	TCCTGAGTAG	CTGGGACCAC	AGGAGCATGA	480
CTGTAAGTCC	TGGTGTGAAT	CAGGCTCCAG	AAACAGCTTG	ATCCTGGTTC	CCAACAGTAT	540
GGTCAAAACT	CATTCTCTCT	TCTGTCTTCT	TCTCTATGAC	AGGTGCTCCC	TAAGAAGTGA	600
CAAAGAAGGC	CACTAACAGC	TCTGGGCTCG	AG			632

- (2) INFORMATION FOR SEQ ID NO:608:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 531 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:608:

GTATNGNTGA	AAATAAGAAA	AAATATTTCT	GAAATTCGGG	AACTTGAGAA	CATAGAAGAA	60
CACCAGTCTG	TAGATATTGC	AACTTTGGAA	GATGAAGCTC	AGGAAAATAA	AAGCAAAATG	120
AAAATGGTTG	AGGAACATAT	GGAGCAACAA	AAAGAAAATA	TGGAGCATCT	TAAAAGTCTG	180
AAAATAGAAG	CAGAAAATAA	GTATGATGCA	ATTAAATTCA	AAATTAATCA	ACTATCGGAG	240
CTAGCAGACC	CACTTAAGGA	TGAATTAAAC	CTTGCTGATT	CTGAAGTGGA	TAACCAAAAA	300
CGAGGGAAAC	GACATTATGA	AGAAAAACAA	AAAGAACACT	TGGATACCTT	AAATAAAAAG	360
AAACGAGAAC	TGGATATGAA	AGAGAAAGAA	CTAGAGGAGA	AAATGTCACA	AGCAAGACAA	420
ATCTGCCCAG	AGCGTATAGA	AGTAGAAAAA	TCTGCATCAA	TTTTGGACAA	AGAAATTAAT	480
CGATTAAGGC	AGAAGATACA	GGTAGAACAT	GCTAGTCAAG	GAGACCTCGA	G	531

- (2) INFORMATION FOR SEQ ID NO:609:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 330 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:609:

GTGACTTTGG	AACCTTGAGA	GTTAGATGAA	TAAATCAGAA	AAATGGAATT	AAATGTATCT	60
ACTTTATTAT	TGGTAAATCT	GGTTAGGATG	TGCAGCCCTA	ATCAGGCTTC	CTTAATTCCT	120
TCTCCACTGA	GTCTGGACCA	GCACTCTCCA	GTAGAACTTT	CTATGATGAC	GGAAATCCTC	180
TGTGTCTGCG	CTGATCAGTG	TGGTAGTTAC	TGGCCACATG	TGGCTGTTGA	GTACTTGAAA	240
TGTGGCCAGT	GTGGTGATGG	AATTGTGTTT	TTAATCTTAT	TTAATTTAAA	TTTAAATAGC	300
CAAATGTGGC	TAGTGGCTGT	TGTACTCGAG				330

- (2) INFORMATION FOR SEQ ID NO:610:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 345 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:610:

GTGGAGGCTT	TCTTGATCAT	GGATGGTGAA	GATATACCAG	ATTTTTCAAG	TTTAAAGGAG	60
GAAACTGCTT	ATTGGAAGGA	ACTTTCCTTG	AAGTATAAGC	AAAGCTTCCA	GGAAGCTCGG	120
			AGAGAATTAG			180
			TTGCAGGCTG			240
GAAGTGGAGG	CATTAAAGGA	GAAGCTAGAG	CATCAATATG	CACAGAGCTA	TAAGCAGGTC	300
TCAGTGTTAG	AAGATGATTT	AAGTCAGACT	CGGGCCGAAC	TCGAG		345

- (2) INFORMATION FOR SEQ ID NO:611:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 633 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:611:

${\tt GAATTCGGCC}$	TTCATGGCCT	AAATGACCAN	ATCGAGAGGG	AGGACTATGA	GGACTTTGAG	60
TACATTCGGC	GCCAGAAGCA	ACCCAGGCCA	CCCCCAAGCA	GAAGGAGGAG	GCCCGAGCGG	120
GTCTGGCCAG	AGCCCCCTGA	GGAGAAGGCC	CCGGCCCCAG	CCCCGGAAGA	GAGGATTGAG	180
CCTCCTGTGA	ACCTCTGCTG	CCCCCGCTGC	CCCCTGACTA	TGGTGATGGT	TACGTGATCC	240
CCAACTACGA	TGACATGGAC	TATTACTTTG	GGCCTCCTCC	GCCCCAGAAG	CCCGATGCTG	300
AGCGCCAGAC	GGACGAAGAG	AAGGAGGAGC	TGAAGAAACC	CAAAAAGGAG	GACAGCAGCC	360
CCAAGGAGGA	GACCGACAAG	TGGGCAGTGG	AGAAGGGCAA	GGACCACAAA	GAGCCCCGAA	420
AGGGCGAGGA	GTTGGAGGAG	GAGTGGACGC	CTACGGAGAA	AGTCAAGTGT	CCCCCCATTG	480
GGATGGAGTC	ACACCGTATT	GAGGACAACC	AGATCCGAGC	CTCCTCCATG	CTGCGCCACG	-540
GCCTGGGGGC	ACAGCGCGGC	CGGCTCAACA	TGCAGACCGG	TGCCACTGAG	GACGACTACT	600
ATGATGGTGC	GTGGTGTGCC	GAGGTCACTC	GAG			633

- (2) INFORMATION FOR SEQ ID NO:612:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 296 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:612:

AAATACTAGA	GATAAAGTAG	ATTCATGGCT	TGGTAAGGAA	ATTTTAAGCA	TTCCTTCAAA	60
GATTGACGTG	CTAAAATAAG	CATTGATGTT	TTGAGTTTTT	TTACACCTAG	GATTTTTAGC	120
TTGGGTGTGT	AGGTGAAGGC	CAAGACTCTC	TGCAGGAAAA	AGCTTATTTT	CAAACTCAGA	180
AAATAAAATG	TCAATCATAA	AAATCTACTT	CAACTTTAGC	AAAAAGAAAA	AAAAAATCAA	240
CAAAAAGTAT	ACTCTGTATG	CTGGGATTCC	GAGGTTCCAA	CACACTGTTA	CTCGAG	296

- (2) INFORMATION FOR SEQ ID NO:613:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:613:

GATCCAGTGC	TGCAGCTTCC	TTACTATGAA	ATGACAGCTC	CACTTCCTAA	TAGTGCATCC	60
GTGTCTTCCT	CACTGAATCA	TGTTCCAGAT	CTTGAGGCTG	GACCCAGCTC	ATATAAATGG	120
ACTCACCAAC	AACCAAGTGA	CTCTGACCTT	TATCAGATGA	CAGCTCCACT	TCCTAATAGT	180
GCATCCGTGT	CTTCCTCACT	GAATCATGTT	CCAGATCTTG	AGGCTGGACC	CAGCTCATAT	240
ATAATGGACT	CGCCAACAAC	CCCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:614:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:614:

GGTGGAAACT	ATCCAAGAGG	CCTTCTGAAT	TCCTCTGACA	TATATTTGAG	AAACTGGGCT	60
ACTGAAAGCC	CTAACCCCAC	TTGGCTGCAT	TTTATTTGGT	AACCAGTGAG	GCAAACACCC	120
TTGCCAGACC	CCTACCATCC	ATCTTGATGT	GGTTCCTGCA	CTGGACACTG	CTTGGGTACG	180
GGCCTGCCCA	GATCTTGGGA	ATGTGGGCAG	TGGCTCCTCT	GAAGCACCAG	TGGGCAGAGG	240
ATGAGTCATG	GTATCCTCCC	GGCACCCTCG	AG			272

- (2) INFORMATION FOR SEQ ID NO:615:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 521 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:615:

GAATTCGGCC	TTCATGGCCT	AGTATTTTTG	TAGAGACGGG	GCTTCAGCAT	ATTGGCCAGG	60
CTGGTCATGA	ACTCCTGACC	TCAGGTGATC	CTCCTGCCTC	AGCCTCCCAA	AGTGCTGGGA	120
TTACAGGCAT	GAACCACTGC	ACCCAGTCAA	GGGTATAAAA	TTTCTACACA	GCACAGGCAG	180
ATTCTGGCTG	TGGAAGACCC	CAAGATTCTT	TGGAATTGTG	ATGCTTTATT	TAATTTAGAG	240
ATTATCTTCT	CTGTCCCACT	CTTCCCCTTC	CTAAAAAGGA	CTAGATGCTT	GCTGCTTAAT	300
TAGTAAAGCA	AATTTAAGAT	AATTTTCTGC	TTTGAGATTT	AGGGATAGAT	TTTTTAACAT	360
AGTCTTGCTG	ATAATGATAG	ACATCCTGGG	ATGTTGGAAA	TTAGGAAACT	TGAACTTTTA	420
TTTGCACAGA	CTGAGAATTA	TGACTGAGGA	AAAGTTAGAG	GATCAGAAAA	AATAAATTTA	480
TAAATCACAA	GCTAGGCTTG	GCAATATGAG	TGGCGCTCGA	G		521

- (2) INFORMATION FOR SEQ ID NO:616:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 577 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:616:

GAATTCGGCC TTCATGGCC	T AGATTGGAAG	GTGTGGTAGG	CAGAATTCTG	GCCCCCATGA	60
CTGCCCCTTC CCCTCACAC	C CCCCGGGTTG	CTCCAATGGT	TATGTCACGT	TGCTTGGCAA	120
AAGGGACTTT GTAGATGTC	A TAAAAGGTGA	CTAATCAGCT	GACTTGAGAG	AGTTTATCCT	180
GGATTATCCA AGGGGCCCA	G TGTAATTCCA	AGAGCCCTCA	AGAGCAGAGC	TGGAGAGATG	240
CCGCGCAGGA GGCCTGGGT	G CCGTTTCGGA	GCAGGATGGA	AGGCGGTGAA	TCCCGCCTCC	300
AGCATGGAGC TCGGGAGAG	G CCCTGACTGC	AGATGGAGAG	GCTGCCCTGG	CCGCAGCGCA	360
CGGGGCTCCT GACCCACAA	A AATCGCGAGA	TAATGAGTTC	ATGTTGTTTG	AAAGTCCGTC	420

ATTTCTGGTA ATTTGCTATA TAAAACTATT GCTATACGAT TAAAAACTAA TACAGAAGAA	480
TATTTCTTTA ACATTATGTT AAAAAGGAAA AAAGCTAACA TTTTCTTTAT AGCAAAACAC TGCCATGATT TACATTAAAA TTAGGAACAT ACTCGAG	540 577
(2) INFORMATION FOR SEQ ID NO:617:	
(i) SEOUENCE CHARACTERISTICS:	
(A) LENGTH: 269 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
157 101000011 1111000	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:617:	
GAATTCGGCC TTCATGGCCT AGCACATACA GTATAAAAAA TAATCACCCA CCATAATTAT	60
ACCAAATTCC TCTTATCAAC TGCATACTAA GTGTTTTCAA TACAATTTTT TCCGTATAAA	120
AATACTGGGA AAAATTGATA AATAACAGGT AAGAGAAAGA TATTTCTAGG CAATTACTAG GATCATTTGG AAAAAGTGAG TACTGTGGAT ATTTAAAATA TCACAGTAAC AAGATCATGC	180
TTGTTCCTAC AGTATTGCGG GCCCTCGAG	240 269
(2) INFORMATION FOR SEQ ID NO:618:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 469 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:618:	
GAATTCGGCC TTCATGGATT CTGCTTTGAA TATAGCTACA GAAATAAAGG ATGGACTACA	60
ATGTGGGACA GTGTCTTCTC AGAAACAACC AGCCTTGAAG GCTACAACTG ACGAGGAAGA	120
TTCTGTTTCG AATATAGCCA CAGAAATAAA GGATGGAGAA AAATCTGGGA CAGTGTCTTC	180
TCAGAAACAA CCAGCCTTGA AGGCTACAAC TGACGAGGAA GATTCTGTTT TGAATATAGC	240
CACAGAAATA AAGGATGGAG AAAAATCTGA GACAGTGTCT TCTCAGAAAC AACCAGCCTT GAAGGCTACA ACTGACGAGG AAGATTCTGT TTCGATTATA GCCACAGAAA TAAAAGGACGG	300 360
AGAAAAATCT GGGACAGTGT CTTCTCGGAA AAAACCAGCC TTGAAGGCTA CAAGTGATGA	420
GAAAGATTCT TTTTCGAATA TAACCAGAGA AAAAAAGGAT GGACTCGAG	469
(2) INFORMATION FOR SEQ ID NO:619:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 448 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:619:	
GAATTCGGCC TTCATGGCCT AGTCCGTGTT GTGGTCAGTG TGTGAACTCC ACACTGGACA GTAGCTGAGT TTGGGCAGGG ATGAGGAGTG GAGGGGTGAG GTCTAAGGTT CAGAAAAAGT	60 120
TTGTGTTTAA GAACTTGGTT ACACTGGAGT CAGTTGCAGA CCAGAATGGA GAAAAGCACT	180

CCTGACTTGA GTTGGGTGTG CTTGGGACTG GATCACCTTT GACCTTCTTT ATTTACCTAA

180

TTGGAGGGAA GAGCAGGGGA GGCAACACTA TTTCTCTTGG GTGTTAGAAG AAGATTCGAG	300
CTTATTTGGG CACTGGTCTC TATCTTTGCC TTCAGCTGAA TCAACATCTA AGATGTTTTA	360
GATGCTTAGC TAATTCCTCT TAAAAAAAGA ATAAGCAGAG GCCGGACGTG GTGGCTCATA	420
GCTGTAATCC CAGCAGTGTG GTCTCGAG	448
(2) INFORMATION FOR SEQ ID NO:620:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 457 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:620:	
GAATTCGGNC TTCATGGCCT ACTTAAATCC ATCAAGTTAC ACAATCGATC TGTTGTCAGC	60
TGAACAGAAC CACATTAAAT TTAAGCCAAA CACACCAATA GGAATGTTGG AGGTAGAGAA	120
GGTAATTTTA AAGCCAAAAA TGTTGGATAA GAAAAAACCT ACACCTATAA TACCAGAGAA	180
AACTGTGAGA GTAGTGATTA ATTTTAAGAA AACACAGAAG ACCATAGTGA GAGTGAGTCC	240
ACATGCATCG CTTCAAGAGC TTGCCCCTAT TATATGTAGC AAATGTGAGT TTGATCCGTT GCATACACTA TTGTTGAAAG ATTATCAATC GCAGGAGCCT CTTGACTTGA	300
TAATGACCTG GGACTAAGAG AATTATATGC GATGGATGTC AACAGAGGT CCTGCCAAAT	360
ATCACAAAAC CTAGATATTA TGAAGGAGGC CCTCGAG	420 457
THE CHARLES TO STOCK OF THE STO	457
(2) INFORMATION FOR SEQ ID NO:621:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 287 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:621:	
VIII, III, III, III, III, III, III, III	
73.3 TTT 07.7 C C C C C C C C C C C C C C C C C C	
GAATTCGGCC TTCATGGCCT ACTCTCTGAT TTACAGATTG CTAATTAAAT GGCTATTATT AGTTTGGATT AATTAGACTT AAGAAAACAA CTAACTGAGG GTTTTTTTT TTTGTTTTTT	60
GAGGGTTTTC TTTGCATGAG AATTGTATGT AACCAGTGAT ATGATTATTC CTGAATGTAC	120 180
AGACAGAAGT AAGCCTGGAC ATTGTTAAAT AGTCCCTGCT TTAAGGGACT ACGATAATGT	240
GTACTATGAC AAACGTGCTT TATTCTTCTA ACGCAGTAAG TCTCGAG	287
(2) INFORMATION FOR SEQ ID NO:622:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 328 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLEGIUE MUDD DNA	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:622:	
CARDOCCCC DOCADCCCC ACDACCOCA ACDACCOCA DE CONTROL CON	
GAATTCGGCC TTCATGGCCT AGTAGGTGTA TCACAGATTT CTAATGTAGA ATGGTCAGTC CAGGAGTAAT TGTAATTGTG GAAAAATGGA GAATTATAAA ACAAGAATGA TGTGCAAAAA	60 120
AGGACACAGT TGAATTCATC TGTGTTCCTC TAAACTATTT CATTTACTCA TTCATCCAAG	180
	100

AATCCTCCAA	TGTTGGGAGT CTGAAAAATT CCAGGCACTC TGGATAAATG AGTATGGAAG AAGAACTTTT AGTCTACAGG GGAACATTAA TAAGCAATCA GGGACTTGAG CTGTGGAAGA TTCTCGAG	240 300 328
(2) INFORM	ATION FOR SEQ ID NO:623:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 375 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)) MOLECULE TYPE: cDNA	
(xi)) SEQUENCE DESCRIPTION: SEQ ID NO:623:	
TAAAAGTCTA AGTCTTTTAT AGCTTTTGGG ATTCTAACCC	TTCATGGCCT AGGACGTTTG GGTTGTTTCC ATCTCAAATA AATAAATAAA TAAAAACAGC TGGGCCCAGG CATTTAAAAA AATGTTCGGT CTTCTAGTTT TGTCTATGCA AATTCTTTGG CTATTGAACT ATCCAAGCTT TCTCTTTTTA ACTGTTTTTG GAATTCTAT TAGATGGTT TGCAACTTCT GCATCTATCC TTCACATTC CTTCACAGTT TTCGTGCTGT TTTCCTTGTG TGCTACATTC TCGAG	60 120 180 240 300 360 375
(2) INFORM	ATION FOR SEQ ID NO:624:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(ii)	(A) LENGTH: 763 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) (xi) GAATTCGGCC	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC	60
(ii) (xi) GAATTCGGCC ACCCTAAGAA	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC	120
(ii) (xi) GAATTCGGCC ACCCTAAGAA GCTGTTTGTG	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGTGC TTGCTTCTCG TTCAGTGAAG GTCGAGAAAG	120 180
(ii) (xi) GAATTCGGCC ACCCTAAGAA GCTGTTTGTG GGATCATGAA	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGTGC TTGGTTCTCG TTCAGTGAAG GTCGAGAAAG CTACGTCACA GAAGGCATCA TCACCAATCA CCCAAATCTC ACTTTGAATT	120 180 240
(ii) (xi) GAATTCGGCC ACCTAAGAA GCTGTTTGTG GGATCATGAA ACCACATTAT	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGTGC TTGCTTCTCG TTCAGTGAAG GTCGAGAAAG CTACGTCACA GAAGGCATCA TCACCAAATCA CCCAAATCTC ACTTTGAATT CCTGGACTGC TAGCTCACCA GAAGCCGTTC ATTAGAAAGT CCTATAAATG	120 180 240 300
(ii) (xi) GAATTCGGCC ACCCTAAGAA GCTGTTTGTG GGATCATGAG ACCACATTAT TCTGCACAAA	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGTGC TTGCTTCTCG TTCAGTGAAG GTCCAGAAAG CCTACGTCACA GAAGGCATCA TCACCAAATCTC ACTTTGAAAT CCTGGACTGC TAGCTCACCA GAAGCCGTTC ATTAGAAAGT CCTATAAATG CGCTGTAGGC CTAAGCTTCC ACCTTCACCT AATAACCCCC CCAAATTCCC	120 180 240 300 360
GAATTCGGCC ACCCTAAGAA GCTGTTTGTG GGATCATGAA ACCACATTAT TCTGCACAAA AAATCCTCAC	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGGTGC TTGCTTCTCG TTCAGTGAAG GTCGAGAAAG CTACGTCACA GAAAGCATCA TCACCAATCA CCCAAATCTC ACTTTGAATT CCTGGACTGC TAGCTCACCA GAAGCCGTTC ATTAGAAAGT CCTATAAATG CGCTGTAGGC CTAAGCTTCC ACCTTCACCT AATAACCCCC CCAAATTCCC CAGCCACCTA AACATCCAGA TAAAAATAGC AGTGTGGTCA ACCCTTACCTT	120 180 240 300
(ii) (xi) GAATTCGGCC ACCCTAAGAA GCTGTTTGTG GGATCATGAA ACCACATTAT TCTGCACAAA AAATCCTCAC AGTGGCTACA	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGCACA TCACCAATCA CCCAAATCTC ACTTTGAATT CCTGGACTGC TAGCTCACCA GAAGCCGTTC ATTAGAAAGT CCTATAAATC CGCTGTAGGC CTAAGCTTCC ACCTTCACCT AATAACCCCC CCAAATTCC CAGCCACCTA AACATCCAGA TAAAAATAGC AGTGTGGGTCA ACCCTTACCTT ACCCAAATTC CATCTGTGAC TTTCCCATCA GCTTCCACCA AAATTACTAC	120 180 240 300 360 420
GAATTCGGCC ACCCTAAGAA GCTGTTTGTG GGATCATGAA ACCACATTAT TCTGCACAAA AAATCCTCAA AGTGGCTACA CTTCCAAATG	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGGTGC TTGCTTCTCG TTCAGTGAAG GTCGAGAAAG CTACGTCACA GAAAGCATCA TCACCAATCA CCCAAATCTC ACTTTGAATT CCTGGACTGC TAGCTCACCA GAAGCCGTTC ATTAGAAAGT CCTATAAATG CGCTGTAGGC CTAAGCTTCC ACCTTCACCT AATAACCCCC CCAAATTCCC CAGCCACCTA AACATCCAGA TAAAAATAGC AGTGTGGTCA ACCCTTACCTT	120 180 240 300 360 420 480
GAATTCGGCC ACCCTAAGAA GCTGTTTGTG GGATCATGAA ACCACATTAT TCTGCACAAA AAATCCTCAA AGTGGCTACA CTTCCAAATG AACACAAGCT	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGTGC TTGCTTCTCG TTCAGTGAAG GTCGAGAAAG CCTACGTCACA GAAGGCATCA TCACCAATCA CCCAAATTCC CCTGGACTGC CTAAGCTTCC ACCTTCACCT AATAACCCCC CCAAATTCCTC CAGCCACCTA AACATCCAGA TATCTCACA AGCTTCACCT TGACTTTTCT TCCCCAGAAT GCCCACCACA TATCTTCAAG AGAAAATGTT	120 180 240 300 360 420 480 540
GAATTCGGCC ACCCTAAGAA GCTGTTTGTG GGATCATGAA ACCACATTAT TCTGCACAAA AAATCCTCAC ACTGCCAAATG ACACAAGCT ACAGGTGCCC	(A) LENGTH: 763 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:624: AAAGAGGCCT ACCTCAAAGG ATTGGCTAAA AGCAAGCAAC TGGATTGAAC GAAAGATTCA CACTGCACCA GGAGACATCA GAAAGAATGA AAACTCTGCC TGCATCTGTG CACTGAGTGC TTGCTTCTCG TTCAGTGAAG GTCGAGAAAG CTACGTCACA GAAGGCATCA TCACCAATCA CCCAAATCTC ACTTTGAATT CCTGGACTGC TAGCTCACCA GAAGCCGTTC ATTAGAAAGT CCTATAAATG CGGTGTAGGC CTAAGCTTCC CACCAATCACCA AAATTACCCC CAGCCACCAATTC CATCTGTGAC TTTCCCATCA GGTTCCACCA AAATTACTAC TGACTTTTCT TCCCCAGAAT GCCACCACCA TATCTTCAAG AGAAAATGTT CTTCTGTAGC TACATTAGCA CCAGTGAATT CCCCAGGCTCC ACAAGACANC	120 180 240 300 360 420 480 540

- (2) INFORMATION FOR SEQ ID NO:625:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 476 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:625:

GAATTCGGCC	AAAGAGGCCT	AGTAGTTTCT	ATGTGCGGTC	TGGGGTGGGG	GCAAGGCCCT	60
TGTGTTCCAC	TGGTTTCCAC	CACGTTGACA	GCAGTCGCTG	GCAGCAGAGA	GCCATTTCCT	120
GTCATGCTGG	TCTGTTCCAG	GACTCTGTGG	AAGATTCTCT	ATCTCCACTG	GCACAGGAGC	180
AGAGGAAATG	GAAGGACTCA	CAGGCAGAGC	AGATCTCATC	CCCCAAGCCT	GTTGGGAGCC	240
ATTACTTTGG	GTCGAAACAT	TATTGTGAAC	ACTAAGTTCT	TCAGGTTTTG	TAGCACATGC	300
TTTCATTTGT	AGAGTTCGTC	TAGAATATCG	TTTGCTGGGC	${\tt CTTCTTTCAA}$	AGGATGTTGA	360
TCTTCTTGCT	TTATTGGTTT	TTGTGGTCTG	ATACTCTGTT	TTCCCACTAT	ATCTAAATCG	420
TGATCCTAGT	CGAATAAATC	CTGATCGATG	AGAACTCTTT	TGGACGGGGC	CTCGAG	476

(2) INFORMATION FOR SEQ ID NO:626:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:626:

GCGATTGAAT	TCTAGACCTG	CCTCAACTGT	CTGGTTTCCT	GTAAAATAAA	CACATTGTTT	60
TATATTTTTA	GGGAACAAAA	AGTGCTGCTA	TAGGGTTCAA	AGTTTTCCTT	CTGAACACTT	120
TTCCGAAACA	AATTACCCCA	AAGACACATT	TTGAATATCC	TGGTCACATC	TTTGGATCTG	180
TAAAATATAC	CTTTTAGTAT	GGCACCTGTT	AAAATGCAAA	GCAAAAACCT	CGAG	234

- (2) INFORMATION FOR SEQ ID NO:627:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 583 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:627:

GAATTCGGCC	TTCATGGCCT	AGGCCTTGTG	AATCATTCAG	CATAAGGAAC	TGTCAATATT	60
TTTTTGAGCT	GTCAGAAATC	CATTTAGTGA	TTTTCGACAA	TTCAAAAAAA	TATTTCTGAC	120
CGCTTGATTC	AGTTCCTAGT	GAATTAGGGA	AGAAGAGGAA	TAAAAGAAAT	ATATCAATCT	180
AAATTATGAA	CCCAGAGTCT	AGCTTCCTGA	ATTCTTCTCT	GTGCTTAAAC	GAACAACAGG	240
ATGTTGAGGT	TCAAAAATAC	TCTCTTCTAT	TTCCCCCCCT	TCCTTCCCTT	TTCTTTCCTT	300
CTCTTCCATT	. CCTCGAAAAG	ATAATAAAAC	AGAATGTGCC	TAGAGCTTCT	GGAAAGAATA	360
CAGTCCTGCT	GATACTAGAA	CTCAGTGAAA	TTTGCACCAG	ATTTCTGAGC	TACAGAACTG	420
AAGATAATTC	ATTTATTTCA	AGCCACTGAG	TTTGTGGTAA	ATTTGTTACA	GTAGCAATAA	480
AAATCTAATA	CATGCCTTCT	ATACCAGAAG	TACACATCCA	CGTGACCATT	CCTGTCCTCA	540
CCCCACACAC	ACATACACAC	ACACACACAC	ACGCACACTC	GAG		583

- (2) INFORMATION FOR SEQ ID NO:628:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 295 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:628:

GAATTCGGCC	TTCATGGCCT	ACCTGCCTCG	AGTTCCTACT	GCCCCGGGC	GGCCTGCACA	60
GAGCTGCTGC	CCTCCAGAGA	CTGTGAATCC	CAAGCCTGAC	TCAGTGGACT	GCTTCCTGTT	120
CCCCTCCCTC	CTCTTCCTCA	CCTTGTTCTG	CACCCTCAAG	CCTTTCTCCA	ATGCCTCCCA	180
GGAGGATTTG	GGGACTTTCT	CCCTGGGGCG	CCCAGATCCA	GCTCGGAGGC	CTCACTGGGA	240
CCTGGCAAGG	CCTGACCTCC	CGCCCAAACT	TGCTTCTGTA	GCCCCCTAC	TCGAG	295

- (2) INFORMATION FOR SEQ ID NO:629:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:629:

GAATTCGGCC	TTCATGGCCT	AACCTGTTGC	TTCCCCTGGG	ACTGAAGGCA	GAAGTGACTC	60
CCGAAATTCT	CTTTCTGGAC	TCAGAAGGAA	ACCAAAGCAA	TTGATGACAC	CGCATCCCAT	120
ACTAAAAGCT	ATGGAAGAGA	GAGCAATTCA	ACGAGCTGAA	TGTAGGCGGA	TCTTGGCAGA	180
GAAGNAGAAA	AAACAAGAAG	AAGANAAATT	GGCCCAGTTA	AAGGCCCAAG	AGGAGGAACG	240
TCAGAAAAGG	GAGGCAGAAG	AAAAGGAGGC	ACAGCTTGAA	AGAAAACGAG	AAGAGAAGAG	300
ACTGAAGAAA	ATGAAAGAAC	TTGAGAAGCA	GAAGAGAACT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:630:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:630:

GAATTCGGCC	TTCATGGCCT	AGTTCTTCCT	TAGGAACAAG	GGCAGGACCT	CAAACAGTCC	60
AGAGGAGAAG	CCTGGGGTGG	TCAGGGAAGG	CTTCCTGGCT	GAGAGGACAG	GCTTAGGGGC	120
ACCTTGAAAG	TTCAGGCTGA	CTGGGGCTAG	GGGCATGTGG	GTAACAGGTT	AAAGGGGGGG	180
GGGCTGGAAA	ATGCAGACAC	CAAAGACCCT	TCAATATGAG	GCCAAGAAAG	GAAGGTTCAG	240
AACAGGGATC	ACTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:631:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:631:

GTTCCAAATC	CATGGGAACC	AGCACAGGAG	CTACAGCAAA	TCATGGCACT	TCTGCAGTAG	60
CAATTACTAG	CCATGATTAC	CTAGGACAAG	AAACTTTGAC	AGAAATCCAA	ACCTCACCAG	120
AAACATCAAT	GAGAGAGGTG	AAAGCGGACG	GAGCTAGCAC	CCCCAGGTTA	AGAGAACAGG	180
ACTGTGGTGA	ACCTGCCTCG	CCAGCAGCAT	CCATCTCCAG	ACTCTCTGGG	GAACAGGTCG	240
ACGGGAAGGG	CCAGGCAGGC	AGTGTATCTG	AAAGTGCGCG	GAGTGAAGGA	AGGATTAGTC	300
CAAAGAGTGA	TATTACTGAG	CTCGAG				326
ACTGTGGTGA ACGGGAAGGG	ACCTGCCTCG CCAGGCAGGC	CCAGCAGCAT AGTGTATCTG	CCATCTCCAG	ACTCTCTGGG	GAACAGGTCG	240 300

- (2) INFORMATION FOR SEQ ID NO:632:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 480 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:632:

GAAAAAATGG	AAGAATTTGT	TTGTAAGGTA	TGGGAAGGTC	GGTGGCGAGT	GATCCCTCAT	60
GATGTACTAC	CAGACTGGCT	CAAGGATAAT	GACTTCCTCT	TGCATGGACA	CCGGCCTCCT	120
			ATTTTCAGAA			180
			TTCCTGTGCC			240
			CAAGAGAAGG			300
			TGGCTCTTCC			360
					TCTGATTATG '	420
GGAAGTTTTG	TTCCTTGGCT	TTATTATTCT	TTCTACTGTA	ATCCACAACC	TATTCTCGAG	480

- (2) INFORMATION FOR SEQ ID NO:633:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 307 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:633:

GAATTCGGCC	TTCATGGCCT	AGCGGGATCG	TATCACTACG	CACGTGGCGT	CAATGACAAA	60
GACGCCTTCC	CCACGGGACA	GGCCCTGGGA	ACTGCGGGGC	AAGGTGTGGG	CACGGCGGGT	120
CGCCTTCCAA	CCCTCCAGGG	TCTCCGGTCC	TGCCCCCTCT	CCAAGACCCA	GAGATTCTCT	180
CCATCCGGTG	CCTCCGGGAG	CCCAGGGTCT	GGGGAGTGTC	TGGCTATGGC	GGGGCGGCTG	240
CTTTTTAGGG	GAGGGAATCC	AGCATTTGGG	AAACCAGATC	TGTTCTCCTT	CTTTCCCTTC	300
CCTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:634:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 458 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:634:

CCTCTGCAAG	AAATGCCTAA	GCGTATTATC	AGGAAGTGGA	TAAAAAT	GTTTCCAGAT	60
CAAATTAAGC	ATCTACAGGT	GAATTAATAT	AGAATTAAGC	TTAGAAAGCT	TAAGTAGAAG	120
TTGAATGAAT	TGTGTTCATT	CTTTGAAACC	CATTGATTTG	CAAAACCAAT	ATTCCACTGT	180
CTATAGGAGG	CAATTCAGAC	TGAAAATAAT	TTAGAAAAAA	AAATAGTCCA	GAAAAAAAA	240
TAGTTCTAGA	GATAAATAGG	TCATTTGAAG	ACTAACCTCT	GCCATTAGGG	GTTTCTAAAG	300
ATAGGCTGAC	TCTATCTATT	TAATAATTAT	TTTGTTCATT	AACTCCTTGC	ATATAGAATT	360
GTAACTGATA	CCAGCCAGGT	ACGGTGGCTC	ACGCCTGTAA	TCCCAGCACT	TTGGGAGGCC	420
AAGGCGGGCA	GATCACCTAA	${\tt GGTCGGGAGT}$	CTCTCGAG			458

- (2) INFORMATION FOR SEQ ID NO:635:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 343 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:635:

GAATTCGGCC	TTCATGGCCT	ACCCACTCTC	ACTTTGTACC	TCTGTCAGTT	ATCTCCTCTT	60
TACCCTTCTT	TCAACGAGCA	TACCACCGGC	CCTCCCAGCA	CCTATGGCCC	AAGCCAGTTG	120
TTTGCAAATT	TTATACTGTG	ACACAGGACA	ATTTACACAC	ACATACACAG	TTTCACTTGT	180
GACATACTTT	TTTTTTGAGA	TGGAGTCTCA	CTTCATTGCC	CAGGCTGGAG	TGCAGTGGTG	240
TGATCACACC	TTATTGCAGC	CTCAAACTCC	TGGGCTCAAG	TGGTCTTCCT	GCCTCAGCCC	300
CCCTAGTAGC	CAGGATTACA	GGCGTGCACC	ACCATTTCTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO:636:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 402 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:636:

GTGGATAACA	AACAAACAAA	TCTGATGCTC	CCTGAGTCAA	CTGTTTATGG	TGATGTGGAC	60
CTTAGTAACA	AAATCAATGA	GATGAAAACC	TTCAATAGCC	CAAATCTGAA	GGATGGGCGT	120
TTTGTCAATC	CATCAGGGCA	GCCTACTCCT	TACGCCACCA	CTCAGCTCAT	CCAGTCAAAC	180
CTCAGCAACA	ACATGAACAA	TGGCAGCGGG	GACTCTGGCG	AGAAGCACTG	GAAACCACTG	240
GGACAGCAGA	AACAAGAAGT	GGCACCAGTT	CAGTACAACA	TCGTGGAGCA	AAACAAGCTG	300
AACAAAGATT	ATCGAGCAAA	TGACACAGTT	CCTCCAACTA	TCCCATACAA	CCAATCATAC	360
GACCAGAACA	CAGGAGGATC	CTACAACAGC	ACAGAGCTCG	AG		402

- (2) INFORMATION FOR SEQ ID NO:637:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 290 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:637:

GCTTCCTCGC	AGCAAGCGGC	TGGAGATAGA	GAAGAGCTTA	CTGGTGCGAG	CGTCCGTCGA	60
CCCCGTCGCC	GCTGACCTAG	AGATGGCAGC	CGGTCTCACC	GACATATTTC	AGCATGATAC	120
ATACTGTGGT	GATGTCTGGA	ACACCAACAA	ACGCCAGAAT	GGCAGACTCA	TGTGGCTCTA	180
TCTCAAATAC	TGGGAACTCG	TTGTCGAACT	GAAGAAGTTT	AAGAGAGTAG	AGGAAGCCAT	240
ACTAGAAAAG	TAAGACAAGA	GTGAAATCAA	ACTGCTTTTA	GTGACTCGAG		290

- (2) INFORMATION FOR SEQ ID NO:638:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 463 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:638:

GTCGAGAAAA	TGGGGATAAT	GGAGAAATTG	TGGGCAAGCT	GGCTTCCTGG	GAAGGGACTA	60
ATTGAACAAG	ACAATGATTT	ATCTTTTCGG	GGTTCAGAGG	CAGCTTGTTA	ATTCGAATTA	120
TTTTCTTTAT	TTTTGCCCAC	AAGTGTTTGG	TTGTCCTTTT	CTCTGGCTTT	TTACCTGATC	180
AGGCTGCAAG	CTGCAAAGGT	GTGGCTTGTG	CTGCAGATTT	GTAATAAAAG	ATGACAGGTG	240
AGAGAGACAG	TGGTGGAACT	GGTAGAGCTT	GCACACCCAC	ACGGTGTGGC	TGCTCGGGAG	300
GCTGTCTAGT	GCACCTGCCA	ACAGAGCACA	GATATCCTCT	CTTCCTCATT	TCAGATTCCT	360
CCTTCCAGCT	GTTTACTAAA	CAGCAACAAA	AACACCCTCT	TGGCTGTAAC	TTGTCAAATA	420
AAGTCCCTGC	AAAGTGTATA	AGATTTTCCT	CCCCAACCTC	GAG		463

- (2) INFORMATION FOR SEQ ID NO:639:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 513 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:639:

GCGAGGGAGA	TGGCAGCCTG	GGCTTTAGCA	GCAGGGAGGA	AGGTGAANAA	AGAACCGGGG	60
CTTGCAGCAG	AGGTGGGTTC	TGCCTTAAAG	GCAGAGACCC	CCAACAACTG	GAATGCCACG	120
GAAGACCAGC	ATGAGCCTAC	CAAACCTTTG	GTTCGCAGGG	CTGGAGCTAA	TTCTCGCTCC	180
AGGAGAAAGA	AGCAGAAGAA	GAACTCCAGG	CAGGAAGCAG	TGCCCTGGAA	AAAACCCAAA	240
GGCATCAATT	CCAACAGCAC	AGCTAACTTG	GAGGATCCTG	AGGTGGGTGA	TGCTGAAAGC	300
ATGGCGATCT	CAGAGCCGAT	CAAGGGCAGC	AGAAAGCCCT	GTGTGAATAA	GGAGGAGTTG	360
GCTTTGAAGA	AGCCCATGGC	GAAATGTGCC	TGGAAGGGTC	CCAGAGAGCC	ACCTCAGGAT	420
GCCCGGGCAG	AAGCCGAGAG	CCCAGGAGGC	GCCTCTGAGT	CAGACCAAGA	TGGTGGCCAT	480
GAAAGCCCAC	CAAAGAAGAA	GGCCGAGCTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:640:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 510 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:640:

GAATTCGGCC	TTCATGGCCT	ACACCTCAGC	CTCCAGAGCA	GCTGGGACTA	CAAACGTGTG	60
CCACCATGCC	GGGCTAATTT	TTGTATTTTC	AGCAGAGGTG	GGGTTTCACC	ATGCTGCTGG	120
CCAGGCTGGT	CTCGAACTCC	TGGCTTCAAG	TAATCTGCCC	ACCACAACCT	CCCAAAGTGC	180
TGGGATTACA	GGTGTGAGCC	ACTGCGCCCA	ACCAAGAGCT	CCTTTTTGTT	TTTCTTTTTT	240
TGTGAATTCG	GATTCTTTAT	ATTCAGGAGT	TTTACTTAAA	CTTTGAATCT	GAAAGAAACT	300
TTAGGAGGAG	CTCATAGATT	TGTGGGAAGA	AGCAAATCTA	${\tt CATTATTTTC}$	TCTCTTCTAA	360
AATCATATTC	${\tt CATGTATTTT}$	GATCTTTTAC	TGAATTTTAA	CACATTGTTT	CATCACTAAC	420
ATAAAGTGTT	TCAATAGTTT	TTGTAACTCA	CACACAAATA	CTGGATTTAA	AAGTTATATA	480
CCTGAGTATA	TTTTTATGGC	AGGTCTCGAG				510

- (2) INFORMATION FOR SEQ ID NO:641:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:641:

60
120
180
240
300
308
24 30

- (2) INFORMATION FOR SEQ ID NO:642:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:642:

GAATTCGGCC TTC	ATGGCCT AGTTAGATGA	AAATCTAAAG	GATGAATACT	TTGAGGAAAT	60
CATGGAAGAA TATG	GAAGATA TTAGACAGGG	CCATTATGAG	TCTCTCAAGG	AGAGGAGATA	120
CTTACCCTTA AGTO	CAAGCCA GAAAAAGTGG	TTTCCAAATG	GATTGGCTGT	CTGAACCTCA	180
CCCAGTGAAG CCC	ACGTTTA TTGGGACCCA	GGTCTTTGAA	GACTATGACC	TGCAGAAGCT	240
GGTGGACTAC ATTO	SACTGGA AGCCTTTCTT	TGATGTCTGG	CAGCTCCGGG	GCAACCCCAC	300
TCGAG					305

- (2) INFORMATION FOR SEQ ID NO:643:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:643:

GCGATTGAAT	TCTAGACCTG	CACCCAGCCA	ACACTGAGAG	ATTTTAATGA	GTACTTTTAT	60
CCACCTGACC	ACCATCATTA	CCTATCACCT	GTCATTCTTC	ATCCACCCTA	CATCCATCCT	120
TCATCCCCCC	ATCATCCACC	CATCTATCCT	TCATCCATCC	ATTCATCATG	GAACCATTAT	180
CCATCCAACT	ATCATCCAGC	CAGCCAGAAA	TGACCCATTC	ATCTTCATCT	CTCATTTCCT	240
CTCTCTAAAC	CAGTTCTTAA	TCTGGGGCCA	AAGTCCTACC	CACACATCCC	TTAGTCTCGA	300
G						301

- (2) INFORMATION FOR SEQ ID NO:644:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 408 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:644:

GAATTCGGCC	TTCATGGCCT	AGATCCCCCG	TGGAGAAAGC	AGTGACACAT	TCACACAGCT	60
GTTCCCTCGC	ATGTTATTTC	ATGAACATGA	CCTGTTTTCG	TGCACTAGAC	ACACAGAGTG	120
GAACAGCCGT	ATGCTTAAAG	TACATGGGCC	AGTGGGACTG	GAAGTGACCT	GTACAAGTGA	180
TGCAAAGGAG	GGTTTCAAAG	AAAAAGGATT	TTGTTTAAAA	TACTTTAAAA	ATGTTATTTC	240
CTGCATCCCT	TGGCTGTGAT	GCCCCTCTCC	CGATTTCCCA	GGGGCTCTGG	GAGGGACCCT	300
TCTAAGAAGA	TTGGGCAGTT	GGGTTTCTGG	CTTGAGATGA	ATCCAAGCAG	CAGAATGAGC	360
CAGGAGTAGC	${\tt AGGAGATGGG}$	CAAAGAAAAC	TGGGGTGCAC	GCCTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:645:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 364 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:645:

GAATTCGGCC	TTCATGGCCT	AGTTATGTGA	TTAGGAGTAG	GGTTAGGATG	ANTGGGAAGA	60
AGAAAGAGAG	GAAGTAAAGT	TTAATTATGC	CTTTTTGGGT	TTATTATCCC	TGATGCATGT	120
GGCCCCCCAC	TGCTGTGTCC	TTCTCCTGTT	GGCTAGGGTT	AGACCACACA	GGCTAAACTA	180
ATTCCGATTG	GCTAATTTAA	AGAGAATGAC	GAGGTAAGTG	TTTTGGCGGG	AAAAATGGTT	240
ATGACAGAGC	AGGTAATAGG	AATGAGTTAG	${\tt GGTGGAGTAG}$	GTAATCGGAA	TGAGTCAGGG	300
TGGAGCAGGT	AATTGGAATG	AGTCAGGGTA	GAGCAGGTAA	TCGAAAAAGG	TTGCTTTGCT	360
CGAG .						364

- (2) INFORMATION FOR SEQ ID NO:646:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:646:

GAATTCGGCC TTCATGGCCT AGGAGTGCAT TTGGATCTAG TGTTTTCTAT CAATCTGTCT GCTGATGTGG CACTACTGCA CCATTTACCA CAACATTAGA ATATGTCTGA GTAACTGGTT GGCTTAGATT TTTTGCATTG AGTCCCACCC CATTTTCCAG AACTTCATG GCTATTCTTA IATGTTTGTT TTCCGTAAGA TCTTTAGGAT CAATTTGTCT AGTTCTAAAG AGGAAATTCT GATATTATTG ATTTAGTAAC TTTCCATGAA AAAAACCTAC CATCACAGGA AAGATGCACA ITAATTACAG GTAGCTCGAG	60 120 180 240 300 320
(2) INFORMATION FOR SEQ ID NO:647:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:	
FAATTCGGCC TTCATGGCCT AGTCAGTGGC TAGATTGATT GATCCTCCAG AATTAGACAC CACACATGTA ACACCAGTCT CAGTTGGAGG GCTGATAGTA AACCTTATTG GTATCTGTGC CTTTAGCCAT GCCCATAGCC ATGCCCATGG AGCTTCTCAA GGAAGCTGTC ACTCATCTGA CACACCATA TGCATGGACA CAGTGACCAT GGGCATGGTC ACAGCCACGG ACTCGCGGGT GGAGGCGAGG TCTCGAG	60 120 180 240 267
(2) INFORMATION FOR SEQ ID NO:648:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:648:	
SAATTCGGCT TCATGGCTAC TTTTGGTAAA GCATACCCAA CCTTCAGTTA GAATATCTCC GGATAATAAG AAAGATCTCA TTGAAATTTA TTAATTCTTT TGTGTCTAGT AGATAACTTG CATGGCACAC AGTGCTTTGA TTTTACCTG CCCAGAATTT AACTCCTCAT CCTATCCTAC CTGATCACCAA GTAATGGCAG GTCTTGCACC AAGCAAGCCA GAAACCTGAG CTTTAGTCTT CATTCCTCCC CACTTCTCGA G	60 120 180 240 300 321
2) INFORMATION FOR SEQ ID NO:649:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 559 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:649:	
SAATTCGGCC TTCATGGCCT AGAGGAAGTG AACGGATGGG GCCTCATCCT CCTGCCTCCC SAAAGGGTGA GGGTGGAAGG ATGGGGCCTGT GCCCTCTTAG GGCAGGAAA AACAGCTTGG	60 120

AGTCTGGCCT	CCAGCCTCCC	TGGCCCCTTT	CTAGAGGCCT	CCATCCCACT	GGCGGCTTGC	240
TCCTGCCACC	GGGCCTCTGC	ACAGTCACCT	CCTGCAGCCT	GGGGTGTGTC	GCCTCTCCAC	300
GTCTTGATAT	TTTTGCTGGA	ATGCAGACGA	TACTATATTT	ACCGTATAAT	ATATTATCAG	360
CTCTCCTATA	TCTCAGTCAA	TTTACATAGT	${\tt TTAAAATAGA}$	ACATCTTATT	AAAAACATCT	420
		ACGCTTACAA				480
TTAGCATACT	GGTATATACA	ACAGTGTGAT	ACAATAAATA	ATTTCATTCA	TGCTCTATCT	540
ACACATCATA	TTGCTCGAG					559

- (2) INFORMATION FOR SEQ ID NO:650:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 477 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:

GAATTCGGCC I	TCATGGCCT	AGGGAGACTG	AGGCAGGCAG	ATCACCTGGG	GTCGGGAGTT	60
CGAGACCAGC C	TGACCAGCA	GGGAGAAACC	CCGTCTCTAC	TAAGAATAGA	AAATTAGGTG	120
TGGCGGTGCA T	GCCTGTGGT	CCCAGCTACT	CGGGAGGCTG	AGGTAGGAGA	ATCGCTTGAA	180
CCCGGGAGGC G	GAGGTCATG	GTGGGCCGGG	ATTGCACCAT	TGCACTCCAG	CCTGGGCAAC	240
AAGAGTGAAA C	TCCATCTCA	AAAAAAAA	AGCCTAGCCT	CCCAAAGTGC	CAGGATTACA	300
GGCATGAGCC A	CCGCGCCTG	TCTGTCCGCC	CGTCTTCTTT	TTTAAGAGCA	AGAAAAGGTT	360
TCCCAGAAGT A	CTCTGGTAG	ATTCTTATCA	CACACACATT	CCTAAACCAG	TTACTGGCAA	420
AGAAAATAGA A	TTATCATGA	TTAATTAGCA	TATTCTGAAG	NACATGCTTC	CCTCGAG	477

- (2) INFORMATION FOR SEQ ID NO:651:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 414 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:651:

GTGTGAACCT	ACGGGAAGGC	GGCCGCCTGC	ACCTCTGTGC	GGAGACCAAG	GATGATGCCC	60
TAGCATGGAA	GACAGCACTG	CTGGAGGCAA	ACTCCACCCC	GGTGCGCGTC	TACAGCCCGT	120
ACCAAGACTA	CTACGAGGTG	GTGCCCCCCA	ATGCACACGA	GGCCACGTAT	GTCCGCAGCT	180
ACTACGGACC	GCCCTACGCA	GGCCCTGGCG	TGACGCACGT	GATAGTGCGG	GAGGATCCCT	240
GCTACAGCGC	CGGCGCCCCT	CTGGCCATGG	GCATGCTTGC	GGGAGCCGCC	ACTGGGGCGG	300
CGCTGGGCTC	GCTCATGTGG	TCGCCCTGCT	GGTTCTGAGC	CCTGGGACTC	GGAGCACTGA	360
CCCCTGCGCT	TGGATTGCTA	GACTCCTCTT	CCTCCTGGAC	CCCATCCTCT	CGAG	414

- (2) INFORMATION FOR SEQ ID NO:652:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 325 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:652:

GAAGGAAAAC	ATGGGCACAG	GGGATTTTAT	CTGCATTTCC	ATGACTGGAG	GGGCGCCCTG	60
GGGGTTCAGA	TTGCAAGGTG	GCAAGGAGCA	GAAGCAGCCC	TTACAAGTTG	CAAAGATTCG	120
AAATCAGAGC	AAAGCCTCTG	GGTCTGGGCT	CTGTGAGGGA	GATGAAGTGG	TTTCCATCAA	180
TGGCAACCCT	TGTGCAGATC	TCACCTACCC	TGAAGTCATC	AAGCTCATGG	AAAGCATAAC	240
AGACTCTCTC	CAAATGCTCA	TCAAAAGACC	ATCCAGTGGA	ATAAGTGAGG	CTTTGATATC	300
TGAAAATGAA	AACTCTAACC	TCGAG				325

- (2) INFORMATION FOR SEQ ID NO:653:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:653:

GAATTCGGCC	TTCATGGCCT	AGGTATTTAG	GCTTTTGTCT	TAACAGCAAA	TCCTGGCTGT	60
CTGGGGCCTG						120
TCAGCTGCTT						180
CTGCAGCACA	CAGGGAAAGT	GAGCCCACAC	TGTGATAGGA	GGGCAGACAC	ACAGGATGTG	240
TTCTGTGTTA	CAGGGTTGCC	GTGAAGAATT	TCATTCTTTT	GCAAGGACTG	GAGAGAAAAT	300
TTTATGTGGA	AGGTAGCCCT	TGGAAATGAC	CTCAAAGAAT	AGGTAGGATC	TTAGCCTGCG	360
TTTGAAAGCC	TGGAAAAAA	CAGGATGACA	GGATGAAGAG	GCCACAGCAC	AGCTGCAGAC	420
AATGGGAGTG	CGGAGATCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:654:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:654:

GGGAGCGCCG	GTGGTTCATC	CTGACCGATA	ACTGCCTCTA	TTACTTTGAA	TACACAACAG	60
ATAAGGAGCC	CAGGGGAATC	ATCCCGTTGG	AAAACCTCAG	CATCAGGGAG	GTGGAGGACC	120
CCCGGAAACC	CAACTGTTTT	GAGCTCTACA	ATCCCAGCCA	CAAAGGGCAG	GTCATCAAGG	180
CCTGTAAGAC	GGAGGCCGAC	GGCNGCGTGG	TAGAGGGGAA	CCATGTGGTG	TACCGGATCT	240
CAGCCCCGAG	CCCGGAGGAG	AAGGAGGAGT	GGATGAAATC	CATCAAAGCC	AGTATCAGCA	300
GATCCCTCGA	G					311

- (2) INFORMATION FOR SEQ ID NO:655:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 346 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:655:

GGGGGATACG GATACCCAAA CTTCAATGTT CCTTGATAGT AGGAAGGAGG ACAGTTATAT AGACCATAAG GTGCCTTGCA CAGATTCACA AGTGCAGGTC AAGTTGGAGG ACCACAAAAT AGTAACTGCC TGCTTGCCTG TGGAACATGT TAATCAGGTG ACTACTGAGC CAGCTACAGG GCCCTTTTCT GAAACTCAGT CATCTTTAAG GGATTCTGAG GAGGAAGTAG ATGTGGTGGG AGATAGCAGT GCCTCAAAAG AGCAGTGTAA AGAAAACACC AATAACGAAC TGGACACAAG TCTTGAGAGGT ATGCCAGCCT CCCGGAGAACC TGAACCATCT CTCGAG	60 120 180 240 300 346
(2) INFORMATION FOR SEQ ID NO:656:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:656:	
GAATTCGGCC AAAGAGGCCT ACTAAACCGT CGATTGAATT CTCGAGGCAG GTCTAGAATT CAATCGACGG TTTAGGCTCC CTATAGTGAG TCGTATTAAT TTCAGAGGTG TATTTA	60 116
(2) INFORMATION FOR SEQ ID NO:657:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 482 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:657:	
GAATTCGGCC AAAGAGGCCT AGGGATGAGG GTGAAGAAGG GGAGAGGGTT GGTTAGAGAT ACAGTGTGGG TGGTGGGGGT GGCCAAGAAA ATACTAATTA ATAATAGTAA GTTGTTAGTG GAAGATTTAG TGGTGCAGAAA ATACTAATTA ATAATAGTAA GTTGTTAGTG TTGGTTAAGT TGTTGCTNGG AAGTGAGAAA ATACTAATTA ATAATAGTAA GTGCTTAGAA CTTTAAGTG AAACAGACAA ACTAACAAAC AAAAATTGTT TTGCTTTGCT	60 120 180 240 300 360 420 480 482
(2) INFORMATION FOR SEQ ID NO:658:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 430 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:658:	
GAATTCGGCC AAAGAGGCCT AGTCGAGTCC CTTCTGTCCC AGTCGTTCGT GCCTCTTGTC	60
CCACGCAACT CCAGCTTGTA CCATGCCGGT CAAAGGAGGT AGCAAGTGCA TCAAATACCT GCTCTTCGGA TTTAACTTCA TCTTCTGGCT CGCTGGCATT GCAGTGCTTG CTATTGGACT	120 180

ATGGCTCCGA TTCGACTCTC AGACCAAGAG CATCTTCGAG CAAGAGAATA ACCATTCCAG TTTCTACACA GGAGTGTACA TTCTGATTGG AGCCGGGGCC CTCATGATGC TGGTTGGTTT CCTGGGCTGC TGTGGAGCTG TACAAGAGTC CCAGTGCATG CTGGGATTGT TCTTCGGGTT CCTCTTGGTG ATATTCGCCA TTGAGATAGC CGCCGCCGTC TGGGGCTATA CCCACAAGAG TCGAGTCGAG	240 300 360 420 430
(2) INFORMATION FOR SEQ ID NO:659:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:659:	
GAATTCGGCC TTCATGGCCT AAGAGTACAG AGATTTCACT TCATCTTGTG CTAATGTTTA ATTNAAAGTA TATTGACACT AGTAAAGACA CTTTATTTTA ATTTGAGGTA TAAATGTCTA CCTAAAATAG ACTATTTCCA TTGAGTCATA CATTTTAAAT GTGGTATATA TTCTTATATT TCACAAAATG ATAACTATCA TAGAAATCTA ATACTCATTA ATTTGATTAA TAATTATTT TTTCCTCAAA TTTGGAAATA TCTTTTCCTA TGTAATGGTC ATGTCTCGAG	60 120 180 240 290
(2) INFORMATION FOR SEQ ID NO:660:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 406 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:660:	
GAATTCGGCC TTCATGGCCT AGTCAGAAGT CTTTGTGTCC CTGTTTTTGT GTCCATTTCA TGTACCTTGG CACTTTAAGG CTTGCCTGC AAAATAAAAC ATTGCATCAT CACTTGTGAA GGCAGAGCTT GGGAGTTTGC ACCTGTCAGA TGAGGATAGG AAACAAATTT ATGCCCCAGG GCCTTTGATG CTGCCCACTC ACCTGTCTG ACAGCCAGGG CACGGCCAGG GGGAGTGGAG AAGACGAGCG AGACCAAAAC CTTGCCGTGG GGAGGAGGGG GCATAGCCA TTGATAAATC GGGACTTGAA CTATCCCATC ACTCTAAAAA TATTTTTTAT CTGATTACAA AAGTAATAGA TGGCCAGGCA TGATGGCTCA TGCCTGTAAT CCCCAACACTC CTCGAG	60 120 180 240 300 360 406
(2) INFORMATION FOR SEQ ID NO:661:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:	
GAATTCGGCC TTCATGGCCT AGTGGAACTG AAAACTCAGA GGAGGCATCA AACCCAGGCT TGGGGGACAA AACTAAGTCT TGCCAGAGTC CTGAAGGATG AACAACAGTT AACCAAGCAA GGGATACTGG AGGGCATGGA GGCTCTCTGG CCTGGAGTGC AGAGCATGGA GTGCTCAAAG	60 120 180

AGCTAGTTAG	CTCTGCAAAG	CTGAGTGTCA	GGAATGTAAA	GGGAGAGAAT	AGGAGTGAGA	240
GAAGAGTCTG	GCAAGGCAGA	CAGGGAAGGC	CTATATGCCT	TGATGGAGAA	CCACTGAAGG	300
ATTTAAAGAA	$\tt GGAGAGGGTT$	AATTTTGTCC	AATAGAAAGA	TCACATTGTG	TGTAGTGTGG	360
AGGATGGGTT	GCAGAGAGAG	AAGCTAGAGA	CCAAAAGATG	AGACGGGAAC	AGCTGCAAAT	420
TTCGAGAGCT	CGTAAGATTA	TGTATGGCTG	GACCACTCGA	G		461

- (2) INFORMATION FOR SEQ ID NO:662:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 502 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:662:

GAATTCGGCC TTCATGGCC	AGCCTGAGCT	CAGGAGTTCA	AGACCAGCCT	GGGCAACACA	60
GTGAAACTCC ATCTCTACT	AAATACATAA	AAATTAGCTG	GGCCTGGAGG	CATGCACCTG	120
TGGTCCCAGT GCTACTGGG	AGGCTGAGGC	AGGAGAATTG	CTTGGGCCCG	GGAGGCAGAG	180
GTTGCAGTGA GCCAAGATC	CGCCACTGCA	CTCCAGCCTG	GGCAACAGAG	CGAGACTCCA	240
TCTCAAACAA ACAAACAAA	AAACAAACAA	ACAAAACAAC	AGTTATTTTT	TTCTCACCAT	300
TCTAAAGAAT GTTACATTTO	ATTCTTTTC	AAAATTTGGT	CAGTTTTGAT	AGTCTTATTT	360
CTCCATACTT TCATTCCCC	TTTTTTTTC	TGTAAATAAT	TGAACTTTAT	ATTCCTTATA	420
TGATAATTTT AATATCCAA	GTCATTGGTC	ATATTCTCCA	GTTCATGATT	TCTGCTGAGT	480
TTGTGGTGCT GATTTTCTCC	S AG				502

- (2) INFORMATION FOR SEQ ID NO:663:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 485 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:663:

GAATTCGGCC	TTCATGGCCT	ACAACCACCA	ACATTTGTGT	TTTTGCAGAT	GAACAGGTTG	60
ACAGAAGTCC	CACTGGCTCA	GGAGTGACAG	CCCGAATTGC	CTTACAGTAT	CACAAAGGGC	120
TTCTGGAACT	GAACCAGATG	AGAGCCTTCA	AAAGCAGTGC	AACTGGCTCA	GTATTCACAG	180
GGAAAGCTGT	GAGGGTAAGT	GGCACCCTTA	GCTTCTTATT	TATAAATGTG	TCACTCATGA	240
GACTGGAGAG	GCCTGAGTTG	GGTGTTTGAT	AAATTTCTTC	ACTCAGCTCT	CAGAAGAGAA	300
TTTTAAAGCA	GGCCTGTAAA	AACTTCTTTT	CAACTAGGAC	${\tt ATTGGTTATC}$	CAGTGTGGTC	360
TTGGGGCCCC	AGCGGGCCCC	TAAGGTCCTT	TCCATGGGTT	CAGAGGGTCA	AAACTGTGTT	420
CATAATAATG	ACATTATTTG	CTTTTCACTC	TCATTCTCTC	AAGAGTGTAC	AGTGGGTTAC	480
TCGAG						485

- (2) INFORMATION FOR SEQ ID NO:664:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO:664:

GAATTCGGCC	TTCATGGCCT	ATATAAAAA	AAGTGTAAAA	TATCTTTGTA	TCTCTAGTTT	60
TTCTCCTTTC	CCCAGATAAG	AATAAAAGCA	GGCTGCAGGC	TCCTGGGGTG	ATAACCCACT	120
TGGGTCGAGT	TCCATCGCTG	TTGGCGATAA	ATCTTGTTGG	TGTTCACTTT	TTGGGTTCTC	180
ACTACCTTTA	TGAGCTATAA	CACTCACCCT	GAAGGTCTGC	AGCTTCACTC	CTGAAGCCAG	240
CGAGAGTACG	AACCCACAGG	CAGGAAGAAA	CTCTGAACAC	ATCCGAACAT	TGGAAAGAAC	300
AAACTCCAAA	CAAGCCGCTT	TTAAGAACTG	TAACACTCAC	AACTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:665:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 571 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:665:

GAATTCGGCC TTCATGGC	T AGTCGTTATC	AGAGGTGGAG	ACATTTAGAA	GTTGTTCTTA	60
ATCAGAGTGA AGCTTGTG	T TCGGAAAGTC	AACCTCACTC	CTCAGCACTC	ACAGCACCTA	120
GCTCTCCAGG TTCCTCATC	G ATGAAGAAGG	ACCAGCCCAC	ATTTACCCTC	CGACAAGTTG	180
GCATAATATG TGAGCGCC					240
AAATCCTCAA TACCAAAC	A GCAGAACAAT	ATGAATCTTT	TGTGAAATTC	ACACATGATC	300
AGATTATGCG ACGGTATGC					360
ATCTGGGTAC CAGGTTTG	C CTCAAGAGAT	GGCTGCTGTA	CACTTTTTGC	AACTGGTTTG	420
ATGTCACATT TCAGCTCC					480
TTTTATACAA CTTGAAAG	C CGTAAAACTT	TCTGGTTGCC	ACAAGCATAT	CTTTCTTTTC	540
TGCTCATCCA ATAAACAG	T GAGCCCTCGA	G			571

- (2) INFORMATION FOR SEQ ID NO:666:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 444 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:666:

GGGATCATTA	TTATTCAGCT	ACTGAGAACT	AGAATATTAA	GAGACTGCTG	GCAAGGCAAG	60
CAGTTAATTT	TCAGTTGAAA	TTGCATTAAA	TAAAAAGTAT	TTTCTTGCTT	TGTGGAAGCA	120
CGTGAATTTT	TGTAAAAAGC	TGCTTGTTTT	CCCCATTTAC	AGGTTCTGTA	CAGAGTAATG	180
AGATGTGTGA	CGGCTGCAAA	CCAGGTGTTT	TTTTCTGAGG	CTGTGTTGAC	AGCTGCTAAT	240
GAGTGTGTTG	GTGTTTTGCT	CGGCAGCTTG	AATCCTAGCA	TGACTATACA	TTGTGACATG	300
GTCATTACAT	ATGGATTAGA	CCAACTGGAG	AATTGCCAGA	CTTGTGGTAC	CAATTATATC	360
ATCTCAGTCT	TGAATTTACT	CACGCTGGTA	TGTGAATTAT	TCTTTTCCTT	TTTAATGTGT	420
TGGTTTATTC	AGGCCCATCT	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:667:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 524 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:667:

GGGAACTGAC	AAGCAATTAA	CTGGAGAATA	AGTGAGGGGA	ATGGAGCAGT	AGTATTCTTT	60
AACTTAATTT	GCCATTTAAG	AGAGCACTTG	GAATCTGAAG	AAAGTCTATC	CCTACCAAGG	120
AAACGGAGTC	AAATTGCAAT	TAAGATTAAC	TTTGGTTATA	TGGAAGCAAG	AATCATGCTT	180
CTCATCATCA	ATTGCGTCTC	TTTGGTAGCC	AATAATTCCA	TCTGTAATCA	TGGCAGCAAC	240
TTAAGTATTG	CCAATGTTTT	CAAATGTGTT	ACAGCATTAA	GGCATCCACA	TCTAAAGAGG	300
			AATGTGCCAA			360
CTCTCCTGGA	ATACTGCCCA	CCATGCCAGC	AAGCTCTTCC	TCCAGTCAAG	AAGGCCTGTG	420
CCACGCTGCT	TGGTTCCCTG	CTGCCTGAAG	ATGCATTTGA	GCCCTATGAG	ATTAGTATGG	480
CTATTTCTGT	CTGCTGACCA	GGAGAGAAAT	GAGTAGTTCT	CGAG		524

- (2) INFORMATION FOR SEQ ID NO:668:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 554 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:668:

GAATTCGGCC	AAAGAGGCCT	ACACAGAGGG	ATAATTGGCA	TTGGTATCAA	CTGACATATT	60
CACAACTTTG	AATAAAACTT	TCCACATTTG	GAAAATCACC	ATGCCTGGCC	CCTAGGCTAT	120
ACTTTGAAAA	CCACTGCTTT	AGTGTTTTAG	AAATTGTTAC	CCTCATACTA	ATATTTACTA	180
CACCCCCCAC	CTTGACAATA	CATACAAAAG	AGGAGTAACA	GTTTCCCATA	ACCTTTCTAA	240
ATTTGAGTCT	TATTAAACCA	GACTCATAGC	CCTTGTTGAC	TTTTCTTCCT	GATCTGTGCC	300
TTATCCCTAG	GGCGGTGATC	ATGCGGGTAT	CTGCTAATTG	GCAGATGTGA	GTGGTTATAC	360
CTATTTACAA	GCAACTCATT	GCAAAAATAA	TTTTAGCTAA	AGAAAACATC	CATGGCCAGA	420
${\tt GAATAAGTTT}$	TGGAATTTGA	TATGTTAAAT	GAGCTTTATG	TTTACCTTTA	AAAGGTTAAA	480
ATATTTACCA	TTCATGGATT	ACCTTTTTC	AGAAAGTAAG	AATATATAA	TTACATTTAA	540
TCTTGAAGCT	CGAG					554

- (2) INFORMATION FOR SEQ ID NO:669:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 329 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:669:

GAATTCGGCC	TTCATGGCCT	AATCGTATTC	CATCTACTGC	ATACTTTTCA	TAGATGTCCT	60
CCATCAGAAG	CACCTATGGT	TGTTTGTTAA	ACGTGTTATT	TCCTGATCCC	ACCCCAGGAT	120
TTCTGAGTAT	TCTAAGAATT	TCTAAGTGTA	AGGCCTGGAA	ATATGCATTT	TACAACCCCC	180
TAGAACATTC	TTATGTGCAC	TAAAATTTGA	GAACCACTAA	TCTGGTGTAT	ATACTGTTGT	240
TACTTAATAT	TTTCTTAATG	ATAGATACTT	GGATGATTTT	TGACTTTATT	ATTATTATAA	300
GCAATGTTGT	AAACATCACA	CAGGCCAAG				329

(2) INFORMATION FOR SEQ ID NO:670:

180

240

300

357

- (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:670: GGCGTATGAT ACCTAAAGTG GAGTGGTCGG CGTTCCTGGA GGCGGCCGAT AACTTGCGTC 60 TGATCCAGGT GCCGAAAGGG CCGGTTGAGG GATATGAGGA GAATGAGGAG TTTCTGAGGA 120 CCATGCACCA CCTGCTGCTG GAGGTGGAAG TGATAGAGGG CACCCTGCAG TGCCCGGAAT CTGGACGTAT GTTCCCCATC AGCCGCGGGA TCCCCAACAT GCTGCTGAGT GAAGAGGAAA 240 CTGAGAGTTG ATTGCACCAG ACTCGAG 267 (2) INFORMATION FOR SEQ ID NO:671: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 429 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:671: GAATTCGGCC TTCATGGCCT ATTATCTCTC AAAAACAAAG CAATAAGTAC CAAGAAATAG CAACAAAAAT TAGCTTGTAA GGTTGGTTTC TGAGGGTAGA AATGGCTCTT GATGCCATGT 120 GGAGCAATGG GAAGGAGGCT TTCTAGTTAC ACAGACTCTT GGTCCTGCCA CTTATTCATT 180 TTATTTTATT TTATATTTTA CTTTAAATTT TTTGAGATAG GGTTTCACCC TGTCGCCCAG 240 GCTGGTGGGC AGTGGCTCAC TGCAGCCTCG AACTACCAGG CTGAAGTGAT GCTCTTACCT 300 CAGCCTTTCG AGTAGTTGGG ACAACAGGTG CACACCACCA TTCCTGGCTA ATTAAAAAAA 360 TTTTTTTGTG GGAACATGGC AAGACCTTGT CTCTATTAAC AACAACAGCA ACAGCAACAA 420 CAACTCGAG 429 (2) INFORMATION FOR SEQ ID NO:672: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEO ID NO:672: GTAAAATCGT TCTTGAGAGG AACGTCTCTG TGCGAAGAGA TAATGAGTTT AGCTCTGAGA AGTGAGCTTG TAGTGGACAA AACAAAGAG AAAAAAAGAA GAGAACTGTC TGAGGAACAG 120
- (2) INFORMATION FOR SEQ ID NO:673:
 - (i) SEQUENCE CHARACTERISTICS:

AAACAAGAAA TTAAAGATGC TTTTGAACTA TTTGATACAG ACAAAGATGA AGCAATAGAT

TATCATGAAT TAAAGGTGGC AATGAGAGCC TTGGGGTTTG ATGTAAAAAA AGCTGATGTA

CTGAAGATTC TTAAAGATTA TGACAGAGAA GCCACAGGGA AAATCACCTT TGAAGATTTT

AATGAAGTTG TGACAGACTG GATATTGGAA AGAGATCCCC ATGAAGAAAT ACTCGAG

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:673:

GGTAGATACT	GGTTTTTCGT	ATCCTGCTTC	TCTTAAGGGC	AGCTCTTTTT	AGCATACTCC	60
CATGCAGCAA	CAGAAATTTG	TATCTTTTTT	TTCTTTTTTG	AGATGGAGTC	TCGCTCTATC	120
ACTAGGCTGG	AGTGCAGTGG	CACAATCTCG	GCTCACTGCA	ACCTCTGCCT	CCTGGTTCAA	180
GCGATTCTCC	TGCCCTAGCC	TCCTGAGTAC	CTGGGACTAC	AGGTGCGCGC	CACCACACCC	240
AGCTAATTTT	TATATTTTTA	GTAGAGACGG	${\tt GGTTTTACCA}$	TGTGGCCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:674:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 470 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:674:

GGATGGACAT	CAGCACTTTA	CGGCGCCAGC	TGAGACCCAC	AGGCCAGCTC	CGTGGAGGGC	60
TCAAGGGCTC	CAAGAGTGAG	GATTCGGAGC	TGCCCCCGCA	GACGGCCTCC	GAGGCTCCCA	120
GTGAGGGGTC	TAGGAGAAGC	TCATCCGACC	TCATCACCCT	CCCAGCCACC	ACTCCCCCAT	180
GTCCCACCAA	GAAGGAATGG	GAAGGGCCAG	CCACCTCGTA	CATGACATGC	AGCGCCTACC	240
AGAAGGTCCA	GGACTCGGAG	ATCAGCTTCC	CCGCGGGCGT	GGAGGTGCAG	GTGCTGGAGA	300
AGCAGGAGAG	CGGGTGGTGG	TATGTGAGGT	TTGGGGAGCT	GGAGGGCTGG	GCCCCTTCCC	360
ACTATTTGGT	GCTGGATGAG	AACGAGCAAC	CTGACCCCTC	TGGCAAAGAG	CTGGACACAG	420
TGCCCGCCAA	GGGCAGGCAG	AACGAAGGCA	AGTCAGACAT	CCAACTCGAG		470

- (2) INFORMATION FOR SEQ ID NO:675:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 637 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:675:

GAATTCGGCC	AAAGAGGCCT	AGTCGCTCTT	GCTGAAACCT	TCAATGCAGT	GAGCGCCCAT	60
CTCATTGGGA	CCTACAGGCT	GAAGTTCTTC	CTCTGATGGA	CATGACCCCC	GTGTTGTCTC	120
TAATAACCTC	ACTTTCACTC	TGTTCCAGCC	ACACGGGGTT	TCTGTCTTTC	TCGGGTCATG	180
TCGGGCTTAT	GTGCCTCGGG	CCCTTTGCTC	ATGCTGTTCT	CTGCCTGGGA	TGCGCTTTAC	240
TGGGTGCCAG	GATGGTCAGT	GATTCCATTT	CTCTCAGAGT	CTATTCACAG	GTCCCCTTCT	300
CGGTCACGCC	TTCTCTGGCT	CCACTGTCTA	AAATTTCAAC	AGCTGCCTCT	GCCCCCGAA	360
CTTCATATCC	CCCTTATCTG	CCTTTTTTCC	TTCAGCTCTT	ACTTCCATCA	AATACAGTAT	420
GTATTTTTAA	AAGTCTTATC	TTGTTCACGG	TCATTTTCTT	CCACAGGTAA	TTTTGGTAAA	480
CTTTGTAAGA	TTGATGATGT	TTAATACTGT	TTTGTTTAAT	ACAGTACCCC	CAGTTTAGCA	540
CACAGCTTTT	GAATGAATGA	CCAGTTTTTA	TTCCCCTCTG	AAGCGCTAAG	AGCTGCCGCT	600
GAGGTGGCAT	CTGTAGCNGC	TCCCGCTCCA	ACTCGAG			637

14 Minutes ...

- (2) INFORMATION FOR SEQ ID NO:676:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 513 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:676:

				AGAAGCGGCG		60
CTGGAACGTA	AGAAGGAGAC	GCAGCGCCTA	CTGGAGGAGG	AGGACTCCAA	GCTCAAGGGC	120
				GGGCCCAGAT		180
CTGCGCCGAG	ACCATCAGCT	CAGGGAGGCC	CCGGACACAG	CCGAGAAAGC	CAAGAGCCAT	240
				TGGAGGAGGG		300
GCGCGCACCA	TCGAGGACGC	CATTGCAGTG	CTCAGCGTGG	CGGAGGAGGC	GGCCGACCGG	360
CACCCAGAAA	GACGCATGCG	GGCAGCCTTC	ACAGCCTTTG	AGGAAGCCCA	GCTGCCGCGG	420
				AACAGCTGCT	CAAGAAGGAG	480
TGGCTCCGCT	CTCCTGACAA	CCCCAAACTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:677:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 376 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:677:

		AGAAGCCACC				60
GGCCCGAGAA	CAGGCCGCCC	GCCTGAAGAA	ACTACAAGAG	CAAGAGAAAC	AACAGAAAGT	120
GGAGTTTCGT	AAAAGGATGG	AGAAGGAGGT	GTCAGATTTC	ATTCAAGACA	GTGGGCAGAT	180
CAAGAAAAAG	TTTCAGCCAA	TGAACAAGAT	CGAGAGGAGC	ATACTACATG	ATGTGGTGGA	240
AGTGGCTGGC	CTGACATCCT	TCTCCTTTGG	GGAAGATGAT	GACTGTCGCT	ATGTCATGAT	300
CTTCAAAAAG	GAGTTTGCAC	CCTCAGATGA	AGAGCTAGAC	TCTTACCGTC	GTGGAGAGGA	360
ATGGGCCCCC	CTCGAG					376

- (2) INFORMATION FOR SEQ ID NO:678:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:678:

A GCAGGAGGTT	TTATTGTAAA	GAGGCCGATT	GTACAGAGCA	60
G GGCTGGGTGG	TGGGACCCAG	AGGCCAGAGC	TGGGTGAAGG	120
C ATCCAGGCAG	TGGGCAGGGC	AGGGAGGACT	AAACGGCTGC	180
C CCCTCATTAC	TGGGTAAGAG	GGAGCCAGGC	TATTTCCACG	240
G GAGACCCTCA	CCACCCCACA	CCATGCCCCA	AGGATACGGG	300
	G GGCTGGGTGG C ATCCAGGCAG C CCCTCATTAC	G GGCTGGGTGG TGGGACCCAG C ATCCAGGCAG TGGGCAGGGC C CCCTCATTAC TGGGTAAGAG	G GGCTGGGTGG TGGGACCCAG AGGCCAGAGC C ATCCAGGCAG TGGGCAGGGC AGGGAGGACT C CCCTCATTAC TGGGTAAGAG GGAGCCAGGC	A GCAGGAGGTT TTATTGTAAA GAGGCCGATT GTACAGAGCA G GGCTGGGTGG TGGGACCCAG AGGCCAGAGC TGGGTGAAGG C ATCCAGGCAG TGGGCAGGGC AGGGAGGACT AAACGGCTGC C CCCTCATTAC TGGGTAAGAG GGAGCCAGGC TATTTCCACG G GAGACCCTCA CCACCCCACA CCATGCCCCA AGGATACGGG

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350

(2) INFORMATION FOR SEQ ID NO:679:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:679:	
GAATTCGGCC TTCATGGCCT AGTTCTCACC GGGGAAAAAC CCACTGTTAG GATGGCATGA ACATTTCCTT AGATCGTGGT CAGCTCCGAG GAATGTGGCG TCCAGGCTCT TTGAGAGCCA TGGGCTGCAC CCGGCCGTAG GCTAGTGTAA CTCGCATCCC ATTGCAGTGC CGTTTCTTGA CTGTGTTGCT GTCTCTTAAA TTAACCGTGC TGAGGCTCCA CATAGCTCCT GGACCTGTGT CTAGTACATA CTGAAGCGAT GGTCAGAGTG TGTAGAGTGA AGTTGCTGTG CCCACATTGT TTGAACTCGC GTACCCCGTA GATACATTGT GCAACGTTCT TCTGTTATTC CCTCGAG	60 120 180 240 300 357
(2) INFORMATION FOR SEQ ID NO:680:	•
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:680:	
GGGGGTGGAA GGCGTAGTGC TTGAAATGCA GGGATCTGGC AGTCAGCAGA AGGATCTGAG ACCCAGTGTC GAGGTTAAAA AAAAAACAAA AAACCAAAAA CCAATGCAGG AATCCAGTGG GTGGAGTGAG GGGATCTGGG ATCCAGTGAT GGGGGCCCCA GGATCCAGGC ATTGTGGTTG TCAGGATCCA GTGGTGAGGT TTGTTGACAT CCAGAATCCA GCAGCTGAGC TTGGAGATCC AGGGCTCGAG	60 120 180 240 250
(2) INFORMATION FOR SEQ ID NO:681:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 406 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:681:	
GGATTCCTAC AAAAATTGAG GCAGAAGATC AAAATCGGAG TGGTAGGCGG ATCGGACTTT GAGAAAAGTGC AGGACCACT GGGAAATGAT GAATATTCAA AGTCATCTGG GTGAGGCCCT ATCATTGAGT TTCATTGAAT TCCGGAAGTAG GATGGTACT TTCATTGAAT TCCGAAATGG GATGTTAAAC GTGCCCTA TTGGAAGAAG CTGCAGCCCAA GAAGAACGCA TTGAGTTCTA CGAACTCGAT AAAAAAAGAAA ATATAAGACA AAAGTTTGTA GCAGATCTAC GGAAAGAGTT TGCTGGAAAA GGCCTCACGT TTTCCATAGG AGGCCCAGATC AGCTTTGATG TCTTTCCTGA TGGATGGAAA CTCGAG	60 120 180 240 300 360 406
317	

AGGTGCCCCA GTCTGGCTTT TGCAGTCGGC CAGCTCCCAG CCTCCTCGAG

- (2) INFORMATION FOR SEQ ID NO:682:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:682:

					TTTCCCCCAA	60
GACTCCCTCT	GGGCCCAGCC	AGCAGGTGAA	GCCTGACTTA	GGGAAGGGGG	GATTTCCAGG	120
			TTGCTATCCA			180
ACATCGATCC	AAGAGGGGGG	GCTCAGTGGG	CGGCGTGTGC	TACCTGTCGA	TGGGCATGGT	240
CGTGCTGCTC	ATGGGCCTCG	TGTTCGCCTC	TGTCTACATC	TACAGATACT	TCTTCCTTGC	300
GCAGCTGTCC	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:683:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 394 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCGGCCTCCC	AAAGTGCTGG	60
GATTACAGGT	GTGAGCTAGC	ACTCCCAGCC	GACAGGTGCT	TCTTAAATGT	TTTCTTTGAG	120
			TTAGAAGGAA			180
			GTTATTAGGA			240
			TGTGTAAATA			300
			GAGGAAGAAG	GGATATGGTG	TGCACTGAGG	360
TAAAGTGAGC	AGGGATACAG	AAGAGAAACT	CGAG			394

- (2) INFORMATION FOR SEQ ID NO:684:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 509 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:684:

GTCCTAACCT	TGGGTCCAAG	TTTCGTTATA	GTGGCAGGAC	ACAAGCGCAA	ACGAGAAGAG	60
CCAGTGCGTT	GATAGATCGC	CCAGCACCTT	ACTTTGAACG	CTCATCCAGC	AAACGTTATA	120
			TGAATGAAAA			180
ATTCTATGTC	TGCTGCAGAG	GTTGGTACTG	GCCAGTACGC	CACAACAAAA	GGCATCTCTC	240
AGACCAACTT	GATCACCACT	GTGACTCCGG	AGAAGAAGGC	TGAGGAGGAG	CGGGACGAGG	300
AAGAGGACAA	ACGGAGGAAG	GGGGAAGAAG	TCACGCCCAT	CTCGGCCATC	CGGCACGAGG	360
GAAAGACTGA	CAGTGAGCGC	ACGGACACCG	CAGCCGACGG	GGAGACCACC	GCCACTGAGT	420
CGGACCAGGA	GGAAGATGCA	GAGCTCAAGG	CACAGGAGCT	ACAAAAAAACT	CNACATCACC	490

TGATGAAACA TCAAACCAAC ATTCTCGAG

(2) INFORMATION FOR SEQ ID NO:685:

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509

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 441 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:685:	
GAATTCGGCC TTCATGGCCT ACCAAAGTGC TAGGATTACA GGCGTGAGCC ACTGCGCCTG GCCTCTTTCT TCTTTCTTGA ATTCTCTTCT TTTTATGTTC CTGGGAAAAT CCTACTCATT TTATATGATT TGGCTGATGT AAAGCCACCA TTGTCTTCCT AAGCAGAGAG GGTCTTGCTT TTGGGTGCTG CACAACTTTG TGCAATTTTT CTGTTACATC ATTTATCTTT TGGGGATTGT TTATTTTCAT ACTTATCTCT CTTCCAGGAC CATGTTAGGG AGAGGTGTTT TTAATTTTTA CCTTTTCTGC AGCACTTAGC ACAGTGCCTA ATCATAGTAA ATATCACGTA AAAGTTGAAT GAAGGAATGG ATGTTTGATA TAGAGTTAGG ACACCTGTGT CCAGGTCTGG CTTTGCTTTT CCTTTNACCC CCCACCTCGA G (2) INFORMATION FOR SEQ ID NO:686: (A) LENGTH: 273 base pairs	60 120 240 300 360 420 441
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:686:	
GAATTCGGCC TTCATGGCCT AGTTGGTTTA TGTTATGTAA AGTTATGTAG TTATGTAAAG GTGCTGAAAT GTCACTCTTG TGATTATGTT TTATTATATA AGGCTCTATC TTAGCAAACC AGGAGAGAAA TTCTCCTGAT GGCCTTGAAG AAGCAAACAG CCACCTGGTT AAGCCCCTGT GGATAGTGCC AAGTGGCAGG AAAGTGGGAG CCACCTCTAG GACCTGAGGA TTAAAGTCAG TAAGAGCTGG GACCTCACTC ATGCAGACTC GAG (2) INFORMATION FOR SEQ ID NO:687:	60 120 180 240 273
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:687:	
GAATTCGGCC AAAGAGGCCT AGGGCTCTGG ATTTTGAGTT TCGGGCTCTA GATGGAATTG AGAAGGTCCA ACTTGCTCAG AGGGCCCTGG AGGCTCATCT GACTTCACCC GGATTTTCCT CGAG	60 120 124
(2) INFORMATION FOR SEQ ID NO:688:	
310	

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 426 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:688:	
GAATTCGGCC AAAGAGGCCT ATGCCATCTT AGTCCCTCTT CCCAACCCCA TTTTTTAGTT ACTTTCCTTT CATTAAAATA TCCTTATGCA CTTACAAATA AAACTAAGTC CCAAGAGGGC AACAAAATAT AAGATTCTTA ATGATACAAA AACAAATCTT TCTGATACTA GATCTTTAT ACTAGAAAAA TAAATTCTTG TGCTTGAACA TCATTTTTAA GCACTTAGTG AATTGAGAAT CTGAACTGCC ACTTGAAATA TTCCCGGGAA AGAACCATTA TGAACCAAAT GAAGGAACAT AGCTATTCAA AGGGACATAT TTTTGTACTT GTTTTGCTCC AATTTCTGCT ACATAGACTG CTCCAGTCTT TCTGTCGACT CTAGGAGATG CCTAAACCGT CGATTGAATT CTAGACCTGC CTCGAG	6 12 18 24 30 36 42 42
(2) INFORMATION FOR SEQ ID NO:689:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: GDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:689:	
GAATTCGGCC AAAGAGGCCT ATAGTTTTT CATGTTACAT CTTTTAGATT ATTTTCTTTT TAATCTATCT GTGACTATAT TTAAAGTCAA TTCTTGTTTT TTCCTTTTCC TTTTTGTGGG TAACGGGGTC TCGCTGTGTT GCCCAGGCAG ATCTCAAACT CCTGGGCTCA AGCTGTCCTC CCACCTCTGC CACCCTAGGC TCGAG	60 120 180 209
(2) INFORMATION FOR SEQ ID NO:690:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:690:	
GAATTCGGCC AAAGAGGCCT ACGTTGATTG AGCACTGAGC CCTTACTACG TGCTAGGCAT GGTACATGCA TGGCCTTATT TAATCCTATC AACCCTCGAG	60 100
(2) INFORMATION FOR SEQ ID NO:691:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:691:

GAATTCGGCC	AAAGAGGCCT	ACATCATACA	AGTCGTCGTA	AAGCAAATCT	GAGCTGTTGT	60
CATTGGAAGG	CACTTTAGTT	TTGATGCAGT	ATTCCGCCAG	GGTTGTGGGG	ACCTTCACTC	120
CATCCTTTTC	TGCTTCGGCC	TTAGTGGCTG	AAACTTGTTT	CCTAATAATT	TCAGCATATT	
CTTTGTCTTT	TCCTTTACTG	TCTCTCCATT	TCCTGAACAT	AACTOARCA	TCAGCATATT	180
CTGGGGAGAA	GGTGTTGGGG	TCATTAACCA	GTGAGATTAC	AAC IGAAGCA	TCGACATTGG	240
AG	0010110000	TCATTAAGCA	GIGAGATTAC	ACTTAATAGG	ATAGTCCTCG	300
AG						302

- (2) INFORMATION FOR SEQ ID NO:692:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 662 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:692:

GAATTCGGCC AAAGAGGCCT	ACCAAATACC	AGGCTACCAT	GGTCTACAAG	ACTCTCTTCG	60
CTCTTTGCAT CTTAACTGCA	GGATGGAGGG	TACAGAGTCT	GCCTACATCA	GCTCCTTTGT	120
CTGTTTCTCT TCCGACAAAC	ATTGTACCAC	CGACCACCAT	CTGGACTAGC	TCTCCACAAA	180
ACACTGATGC AGACACTGCC	TCCCCATCCA	ACGGCACTCA	CAACAACTCG	GTGCTCCCAG	240
TTACAGCATC AGCCCCAACA	TCTCTGCTTC	CTAAGAACAT	TTCCATAGAG	TCCAGAGAAG	300
AGGAGATCAC CAGCCCAGGT	TCGAATTGGG	AAGGCACAAA	CACAGACCCC	TCACCTTCTG	360
GGTTCTCGTC AACAAGCGGT					420
GCACTCCTGA AGCAGGCGTG					480
TCATCTCCCC TCAAGCTCCA					540
TCTTTTCTGC CTCCGTTACT					600
GAGCTCCAAC TGCACCAGAG	TCCCCGACAG	AGGAGTCCAG	CTCTGACCAC	ACGACCCTCG	660
AG					662

- (2) INFORMATION FOR SEQ ID NO:693:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:693:

GAATTCGGCC	AAAGAGGCCT	AAGCCCCCAA	AACACGCTCT	TTTGTGCCTC	CCCTCAAATC	60
CTTCACAGTG	TTCTTCCATA	TCCACTCCTT	CCAGGAAGCA	TGTTCTCACT	ACCCCAGTTC	120
ATGTGGGTTT	CTTCCCTCTC	AGAATTTCTA	TCATGCCCCT	ATAAGTTTAG	CAAATTGTCC	180
			ATATCCCAGG			240
			ACCATGCCTT	ATAGTGTTAA	TAAATTAACC	300
TACCCAGAAA	TGTTTCTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:694:
 - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:694:

GCGATTGAAT	TCTAGACCTG	CCTCAATCCC	CTCCCTACTT	GCTTTTTCTT	AGCATATAAA	60
AGTCCACAAG	TTTTACTCAT	CTTTTTAAAA	AACGAAAACA	TCCTTAGACC	GTGTCCTCCA	120
TTAGTTGCTA	TCCTGCCTTC	TTCTCTCAGC	TGAGCTGTCT	GAAACATGCT	AACATGCTTA	180
TACAATACTT	GCTGTCCTGC	CTTCTGCTCT	CAGCTGAGCT	CTCTGAAACA	TGCTAACATG	240
CTTATACAAT	ACTTGCTGTC	CTGCCTTCTC	CTCTCAGCTG	AGCTCTCTGG	AACATGCTTT	300
TTATACAATA	CTTGCTGTCC	TGCCTTCTTC	TCTCAGCTGA	GCTCTCTGGA	ACTCGAG	357

- (2) INFORMATION FOR SEQ ID NO:695:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 225 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double(D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:695:

GAATTCGGCC	AAAGAGGCCT	ATGGGTTTTT	AAAAATTTTG	TTTTTTATTTT	TTCCTTTGAT	60
GTGCAGAGGC	TGTTTACTTT	GATGCAGTCT	CACTTGTTTA	TATTTTATTT	TGTTGCTGGC	120
CTAGGCCTCT	TTGGCCGAAT	TCGGCCAAAG	AGGCCTAGTC	GGGTGTGGCA	GTGCCATTCT	180
GCAGTCCCAG	CCACCGGGAA	GACCGAAGCG	GGAGGATCAC	TCGAG		225

- (2) INFORMATION FOR SEQ ID NO:696:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 314 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:696:

GAATTCGGCC	AAAGAGGCCT	ATCCGCTTCT	GTTGCAGCTG	GCGGTGCTCG	GCGCGGCGCT	60
GGCGGCCGCA	GCCCTCGTAC	TGATTTCCAT	CGTTGCATTT	ACAACTGCTA	CAAAAATGCC	120
AGCACTCCAT'	CGACATGAAG	AAGAGAAATT	CTTCTTAAAT	GCCAAAGGCC	AGAAAGAAAC	180
TTTACCCAGC	ATGGGACTCA	CCTACCAAAC	AACTTTCTGT	CGTTGTGCCT	TCAAACAATG	240
AAGAAAAACG	GTTGCCTGTG	ATGATGGATG	AAGCTCTGAG	CTATGTAGAG	AAGAGACAGA	300
AACGAGACCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:697:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:697:

GAATTCGGCC	TTCATGGCCT	ACAGAGTGTG	GACGGCCCAC	TGGGTTGGTG	GTGGTGGGTG	60
CCCGTCACAG	GGCTGGAGGT	GTGGCCGGCC	CACTCCCTTTC	TOCOTTOCTO	CGTACGTCCC	60
TTTTTTTTTTT	0001004001	919955955	CACIGGGIIG	TGCTTTCTGC	CGTACGTCCC	120
TTCCCATGAG	GATGAGATGA	CCCATCTGTT	GCATCCCGGC	TGCTGATAAA	ACAAGACCCT	180
CGGAGCCAAG	AAACAACACT	GAGTTCCAGA	TTTCGGAAGG	TTCACGAGTG	TTGCCGACAC	240
GCCCTCCCAA	CTGCAGACAT	CCTCCCTGGA	GGACCTGCTG	TOUTO	CCCCCTGTC	
CACCCACCAC	CACACCCCC	caaaaaaaaaa	***********	IGCICACAIG	CCCCCIGIC	300
CAGCGAGGAC	GACACCICC	CGGGCTGTGC	AGCCCCCTCC	CAGGCCCCTC	GAG	353

- (2) INFORMATION FOR SEQ ID NO:698:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 449 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:698:

GAATTCGGCC	TTCATGGCCT	AGATTGACAG	AGGTCAGTTG	TCACTTCTTG	CCTCTCTCCC	60
CTTCCAGCAA	CATGTATAAT	CCTGTGAGTG	TTTCTTCAGC	ACCCTTCTCT	GTTGTTTACA	 120
CTACTGCAAG	AGCCTCCCTA	AGTGGTCTGC	CTGTTTCCAC	CCTGTTGTCT	TGGAATTTAG	180
TTTTCTCGCA	AAAGCCAGAG	AATGTTTTCA	GAAGGTAGCT	CTTGAGCAAC	TTCCCACTTT	240
CTTGGAGGGG	AGATCCAGCT	TCCCCAACAA	GACCAGCAGG	CCCCTGTGCG	GCCTGGCTCC	300
TGTTCACCCT	ACCAGTCTTG	GCTCAGGCTC	ACGGCTGGAA	TATGCCGAGC	TCTTTCTTGT	360
CCTGGGGCCT	TTGCACTTGG	CTTCCCTCTG	TCCAAAATCA	TCTTCCTGTA	GCTTTGTGCT	420
TGCCTAGCTC	ATCATCATAG	CAGCTCĢAG				449

- (2) INFORMATION FOR SEQ ID NO:699:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:699:

GAATTCGGCC TTCATGGCCT	ACAGAGAACT	GAGGAAAACC	AACTACGTGG	AGAATCTCAA	60
AGAAAAAGC GAGGGAGAAG	CTTCACTGTA	TGAAGATAGA	ATAATAACAA	GAGAGAAGGA	120
CATGAGGAGA GTGAGAGATG	AGCCCGAGAA	GGTGGTGAAG	CAGTGGGACC	ATAGTGAGGA	180
TGAGAAAGAG ACAGATGAGG	ACGATGAGGC	TTTTGGGGAA	GCTCTGCAGA	GCCCAGCAAG	240
CGGAAAGCAG AGTGTGGAAG	CAGGAAAAGC	CAGAAGCGAT	TTGGGAGCAG	TTGCCAAGGG	300
CCTGTCAGGA GAATTAGGCA	CAAGATCAAG	AGGGCTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:700:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 380 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:700:

GAATTCGGCC T	TCATGGCCT	AAGCCAAGCA	AGGCTGTACC	TTTAATTACT	GCTGCCCTCA	60
TTTGCATCTG G	CTGCCCTCA	TTATAGTGCT	ATTAGCAGAG	TGCAGGGGTC	CTCCTGCTGG	120
CCCATCGGGA G'	TGGTGCGTG	CACAGTTGTG	GGGCCTTGCT	TTGGTGGTCT	TTGCTGCCTT	180
CTGGGCAAAA T	GAAGGATTT	GGAGTAGACA	GCAAGCAGGC	ATACATCCTG	GGCCAGAAGC	240
AGCCTGCGGA G	CTCATCGTG	GCTTGCCTTA	AATTGTTTCT	CAACAATAAA	GTTGTTGAAA	300
AACAATTTGT G	TTTTCTTTC	TCCTTATTAA	AAACCCAAAA	TTATATTCAT	TATAGAAAAT	360
TAAAGAAGAT AG	GCTCTCGAG					380

- (2) INFORMATION FOR SEQ ID NO:701:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 319 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:701:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCAGCCTCCC	AAAGTGCTGG	60
${\tt GATTATAGGC}$	GTGAGCCACC	GCGCCCAGCC	GAAAATCTAA	AGATATTGAA	AAGATACAAA	120
GGAGCACATT	ATGAACATTT	TTTTCGTATC	ACTGAGTATT	TTATAACTGC	ATCATTGATT	180
TTAAAAGAAT	TCATGACTTT	GAAAACTAAT	ATTCTACAAA	GTAGCTTTTG	ATTTAACATG	240
AGATTTTATA	TATGTGCTTA	TCTTGGTTCT	CTATGAAACC	CCATTGAAAT	AAGAAAATGT	300
AAACACCAGC	CAACTCGAG					319

- (2) INFORMATION FOR SEQ ID NO:702:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 549 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:702:

GAATTCGGCC AAAGAGGCCT	AATAGTCAAG	ACCTTTGCAG	TTTTGATCAC	AGAAATATGA	60
AAGATTACAC AGCTACAGCT	ATATGAATGA	TAAAAGTGAC	AGCTATGGAT	TTTTAAAGTT	120
ATAAGTTGCT ATACTACATA	TATGTAATGT	GTGTGTGTAT	AGTGTGTAGG	TTATATATAT	180
TATATTTATA CACACACTAT	ACATGTATTT	TAAAATATTG	AAAATCCAGA	ATTATTTAT	240
GGTAAAAATT ACTAAAATTG	ACTTCACATG	CTGAATGAAG	AGAGCCTGAG	TAGACCAACA	300
AACAAATGAA AAATTAAGAC	GGTTAGAAGA	TACGCTTTCT	AAAAGAATAC	ATTTAGAATC	360
ТААСТТТААА ААААААААТ	CCTACTCTCC	TGAGCCAGAG	TGGTCTCAGA	GAGACTCCGA	420
GAACCTAATT TTTTACAAGT	AAAATCTTTG	AAGAATTGGT	AATTGCTAAA	TTTTTCCAAC	480
ATACTATTCT ACAAGACTAA	CCTAAAACTG	ATTATAAGAA	CTAGGTGAGG	AGGGCCGGCA	540
AAACTCGAG					549

- (2) INFORMATION FOR SEQ ID NO:703:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 758 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:703:

GAATTCGGCC AAAGAGGCCT	ATCGAGCCAC	TGCACCTGGC	CGATGTGTTC	TGTTTGAAAT	60
CTTACTCAAA AGTATTTGAA	GAGTTGTGTA	TAGTTGTATG	GATATGTCTG	TAGTAAACAG	120
AAACAAATTG CTTCAGTTTC	TCŢTTACTTA	TTTTCTAGGT	TACAGTACCT	TTACCAGCAT	180
CCCAGCTTTC CTTGCCTAAT	TTTGGATCTA	CAGGGCAACC	TCTAATTGCT	TTGCCTCAGA	240
CTCTTCAGCC CCCATTACAG	CATACCACTC	CCCAAGCACA	GGCTCAGAGT	CTGAGTCGTC	300
CTGCACAAGT AAGCCAGCCT	TTCAGAGGAT	TAATTCCTGC	TGGAACACAG	CATAGCATGA	360
TTGCAACCAC CGGAAAAGTA	AGTAAAGAGA	CATTTGCACA	GGTTATTTGA	GAATTTAAGG	420
TAGTGTGTTC AGATATATGC	ATCTGTGTTA	TCTAAAAAAC	TAAAATGCGT	CAGTTTTTAC	480
CACCCTGCAA AAATCTCAAA	CCCCAGTATA	TTTACATTTT	ATCTATTTAC	TTTTAATGTG	540
TTTGGCCCCA TCTAGTTTTT	ACCTAATAAC	AAAGAATTCA	CAAATTTATT	GGAAGAATTG	600
GATTTATAGT GTCTCTTCGG	CTTATTTAAT	TATAAGTCTG	${\tt TTTGGTCAGG}$	TAATTCCATA	660
ATACTTGAAG CCTAACTATA	GGAGTTTTGT	ACTAAGGTTC	TTTGCCCTTT	CCTAGATTAC	720
GTCTTCACGT ATAGGACATG	TAAACACAGC	AACTCGAG			758

- (2) INFORMATION FOR SEQ ID NO:704:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 663 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:704:

GAATTCGGCC	AAAGAGGCCT	AAGATGGCCT	TCCCATGTTA	TGGCTACATG	GCTGTGATAA	60
CAAGTAGAGT	TATGTGTCTG	CGCTCTAAAC	TCACTGAGTC	TTGCAGGATG	TAAACATCCT	120
AGCTCAGCCT	ATCCTTGACC	AAAGCACANT	CATGCTCCTT	ACAAACTCCA	ACCAGCCTGC	180
ACACTGGGAG	GAGCGCGTGC	TGGGCTAGAG	CCACAGAATT	TTGTACCGTT	GGCAGCAGGG	240
AGGAGCCTGG	CCCCTCCTTT	CCTAGGTAGA	ATCTGGAATT	CAATCTGTGA	GGTGGGAAGC	300
ATATACTAGG	AGGACTTTCA	CTCTGCTGAG	TCCCTGTTCC	CCCTCCCTTT	TTTTTCCTTT	360
TTGCCCAATA	AACCCCTTTA	TTCTCACACT	TCAAATTGTC	TGTGAGACTA	ATCTTTTGTG	420
GCCATGTGAC	ATGGACCCTG	TCTGTAGCTG	AAACTAAGAA	AAAGCCCCTC	CCGCACAGTC	480
TGATGTTTCC	TCAGTCAGAC	ACTGCAAGCT	GTGATGTTGG	GGTGAGTACA	GGATATTTGG	540
CAATATTTGC	AGACAGTTTT	GGCTGTCAGA	GAGGAAGATG	CTGTATGCAG	ACACACTTGA	600
CAGCAATAAC	TTAAGCCCAC	CCTGAGACTG	ACTCTGCATG	GTGATGCACC	TGAAGGCCTC	660
GAG						663

- (2) INFORMATION FOR SEQ ID NO:705:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 334 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:705:

GAATTCGGCC TTCATGGCCT AGAGCGATGT CAAGTGATCT GCCCGCCTCA GCTCCCCAAA

GTGGTGGAAT	TACAGGCGTA	AGCCACTGCG	CCTGGCCCCA	AGTGTCCATT	TTTTAATTTA	120
GTAATTCTAA	CCTAGGTATT	TTTCCTGCAG	TACAAAATGA	GGATAAAGCT	TTACATGAAA	180
ACATGTTGTT	CCTATTATGT	TTATTGCAGC	AAAAACACAA	CCTAAAAACC	CAATCTGAGC	240
AGGTTTTAAC	TAAATACTAA	TAATTCTGAC	ACTAGAACGT	TATGTAGCTA	ACAAAAATAT	300
GTCGTAAAAA	TAATCATGTA	GAAACTGGCT	CGAG		•	334

- (2) INFORMATION FOR SEQ ID NO:706:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 369 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:706:

GAATTCGGCC	TTCATGGCCT	ACCGAGCTTC	AGAGCATCAG	CAGTGTTCCT	CCTTCACTGT	60
GACGCTTGTC	CTCACTTCCC	AGGTGAGGAG	TCTAAGAAAA	CAGCCTTTCC	ATCAGCCCCT	120
GTCGTGACAG	ACCCTCCAGT	GGGATGGTAG	TGGCTGCCTC	ACCCATTTAC	AGGGCAACCC	180
AGTTTTGCTC	CTTCTGCCTT	GAAATTTGTT	CCTCCCAGAA	ACTGTCCCTC	ACAAGGCATG	240
AACAATCAAT	AGAAGATATA	CGTGGTCTTC	CCAGCACTAC	AGCTGCAGAA	TGAGCTGTGG	300
AGTGCCCCGT	CCGGAGTCCT	GAACAGCTTC	AAACTTTTCC	CCTTTAGAAA	TGCCTAACAC	360
GCCCTCGAG						369

- (2) INFORMATION FOR SEQ ID NO:707:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 365 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:707:

GAATTCGGCC	TTCATGGCCT	AGGCATCCTT	GGTGCGGCAT	CCTTGGTGCA	TTATATCAGG	60
AGGCAAATGA	TGTGGGTTTG	TCCCATTGTT	TGTAATGGTA	ACATTGGTTG	CTTGGTTAAG	120
GTGAAGGGTG	CCAAGCTTCT	CCACTGTAAA	GTTCCTATTT	TTTTCTCTGT	AATTAATAAG	180
TAATTTGTAT	GATACTTTGA	GATAACAAAG	TAGACTGTTC	ATCAAACTTT	CATCAATGAA	240
TTTAACATCC	AAAGACGCCT	CAAGAATGAT	CATCAAAAGC	AGCCTACTAA	TGACTGTCAT	300
TTACCATTTA	ATACATTTCA	AACAGTGCAC	GTGCTCTGTG	ACATATTCTG	GGAAGGAATC	360
TCGAG	•					365

- (2) INFORMATION FOR SEQ ID NO:708:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 436 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:708:
- GAATTCGGCC TTCATGGCCT ACACAAAGCT TCTGGAGGAC AAACGGGAGC AGTTGAAGAA

GAGCAAAGAG	CATGAGAAGC	TGATGGAGGG	AGAACTTGAA	GCTTTGCGGC	AGGAATTTAA	120
AAAGAAAGAC	AAGACGTTGA	AAGAGAATTC	CAGAAAGTTG	GAGGAAGAAA	ATGAGAATCT	180
CCGAGCAGAG	CTACAGTGTT	GTTCTACACA	ACTGGAATCC	TCTCTCAACA	AATACAACAC	240
CAGCCAGCAA	GTCATCCAAG	ACTTGAATAA	AGAGATAGCC	CTTCAGAAGG	AGTCCTTAAT	300
GAGCCTGCAG	GCCCAGCTGG	ACAAAGCTCT	GCAGAAGGAG	AAGCACTATC	TCCAGACTAC	360
CATCACCAAA	GAAGCCTATG	ATGCATTATC	CCGGAAGTCA	GCCGCCTGCC	AGGATGACCT	420
GACACAAGCC	CTCGAG					436

- (2) INFORMATION FOR SEQ ID NO:709:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 383 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:709:

GCTGCTCTAT	ATCTTAGAGA	AAATAAAAGA	ACCACATGTT	GCTTCCCTGC	CTGCAAGCTC	60
${\tt TTCTGAATTC}$	ATCACCATTC	ATGTTCCTTC	CTTCAGGGGA	AATGAAGGCA	GATTGTTCTG	120
TTGGTGCTCA	CAGATCTCTT	TCTGTTCTGA	TACCCTCCTC	TTCCTCTCCT	GCTTCTTTCC	180
CTTCATCATG	TGCTCCTATA	CAAGTCTCTC	CCAACTTTAA	AACAAAAACA	AACCCTTCCC	240
TAAATCTTGT	GTTTGTTCCA	GCCATTAGAC	TGTATCGTCC	TTGCCATCCA	CGTTATTGGA	300
AGAAGGCCAG	CTCACCTCTA	CTCCCTTTCT	GCCCTTTCCC	TCTTAATCTG	CTGTCCTCTG	360
ATTTCTGCCC	CCACAAACTC	GAG			•	383

- (2) INFORMATION FOR SEQ ID NO:710:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 496 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:710:

GAATTCGGCC	${\tt TTCATGGCCT}$	AGGGGCCTGA	AGATCTTCGG	GTATTTGGCT	CCCAGAATCT	60
GACCACAGTG	AAGCTAAAAG	${\tt GGGTGGGTGA}$	CAGCTTCAAG	AAGTATCCTG	ACTACGAGTC	120
CAAGGGCATC	AAGGCTCACT	TCAACCTGGA	TGAGAGTGGC	GTGCTCAGTC	TAGACAGGGT	180
GGAGTCTGTA	TTTGAGACAC	TGGTAGAGGA	CAGCGCAGAA	GAGGAATCTA	CTCTCACCAA	240
ACTTGGCAAC	ACCATTTCCA	GCCTGTTTGG	AGGCGGTACC	ACACCAGATG	CCAAGGAGAA	300
TGGTACTGAT	ACTGTCCAGG	AGGAAGAGGA	GAGCCCTGCA	GAGGGGAGCA	AGGACGAGCC	360
TGGGGAGCAG	GTGGAGCTCA	AGGAGGAAGC	TGAGGCCCCA	GTGGAGGATG	GCTCTCAGCC	420
CCCACCCCCT	GAACCTAAGG	GAGATGCAAC	CCCTGAGGGA	GAAAAGGCCA	CAGAAAAAGA	480
AAATGGGGAA	CTCGAG					496

- (2) INFORMATION FOR SEQ ID NO:711:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 475 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:711:

60	ATCAGTTCAC	AACTGAAATG	GTGGAACTAA	AGTATGGAAG	TTCATGGCCT	GAATTCGGCC
120	GACAGTGGTG	GGCCCCTAGA	CGCTGGATTA	TTATATCAGT	ACTGCGTATT	ATATTTGTAA
180	GACAGAAAGC	GTAGTGGGAA	ATTTTATAGT	CGCTTGTGGC	AAAGTCTTTG	GCTAAGTGAT
240	CCAGACAGAA	CAGCTAAGCG	ACCTCAGGTC	ATGTAATGTG	AGAATCATAT	AAACAAGTAG
300	TTTAGGTAAA	AAGGTGTTAT	GAGCAGGAGG	AGAGGGGTTG	AGGTGAAGGT	GAAAAAAGTA
360	GAAGGTGCAA	AAAATGATGA	TATCGATTCC	GAAGAATTGA	AAGGCCTTTT	GTGGCCAGGG
420	GATGGTAGGA	CAGGTGCAAA	AGGCAGAGGG	AGAGCTTTCT	ATGGAGGAGA	TTGTGCCACC
475	TCGAG	TGAGCCAGAC	GTTTGAGGAA	GAACAGCAAT	CTTGTTGAAA	ACAAACACGG

(2) INFORMATION FOR SEQ ID NO:712:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 608 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:712:

GAATTCGGCC	TTCATGGCCT	AATTTTGCAT	AAAACCTCAT	CAATCTCTGC	CAATCACTGA	60
GCCCAAAACC	ATTTTCACTT	TGTTTTAGGT	ATTTATAATA	ACAGCACTCC	CACTTCTCAT	120
GATCAATTTC	CATCTTCAGC	GGTTCAGGCT	GCTTTAATAA	AGTTCCATAA	CCTGAGTGGC	180
AATAAATTT	CGGAATGCAC	ATCTCACAGT	TCTGGAGGCT	GGAAGTCCAA	CAGCAGAGTG	240
CCAGCATAAT	TGGGTTCTGG	TGAGAGAGCT	CTCTTGGGTT	TCAGACTGCT	GCCTTCTCAA	300
TGCAGCTTCA	CATGGTGGAC	AGAAAGAGCT	CTCAAGAGTC	ATTTTTAAGG	GCACCAATCT	360
AATTTATGAA	GCCTCCACCA	TAATAAGCTA	ATTACTTCCC	AAAGTGCTGA	GATTACAGCT	420
GTCAGCCACC	GTACCTGCCT	GGGAATTTTT	TTAAAGCTCA	AATTGGATAA	GAGGGTTATA	480
GGAATATATT	CATCTATCAT	ATAGAAAAGA	ATATGTGCTC	AGTCCCAGGA	AATAGAAAAT	540
ATATTACCTT	ATTTATACTG	TTTTAATTAA	TGCTTTTTAA	AATCTGATTA	ACTCTGGGAG	600
AGCTCGAG						608

- (2) INFORMATION FOR SEQ ID NO:713:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 531 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:713:

GAATTCGGCC TTCTTGGCCT	AGTGCACTCC	TGTAATCCCA	GCTACTCGGG	AGGCTGAGGC	60
AGGAGAATCA CTTGAACCCA	GGAGGTGGAG	GTTGCAGTGA	CCCAAGATCA	TGCCACTGCA	120
CTCCAGCCTG GGTGACAGAG	CGAGAACGTC	TTTAAAAAAA	TTAAAAAAAA	AAAAAAAAGA	180
TTGCACAAAT CAGACAGTGA	CCCAGAGCTC	AGCCTTGAGG	AAAGTCAGTG	TTGGGGAGGG	240
GAGGGCAAAG AAGCAAGTAA	AGGTTTAGCA	GACATGGCAC	CTCAGTCTGG	ACTTGAAGGA	300
GGGCTAGGCA CAAAGGAAGG	GGAACATGTC	AGATGAGAAA	CACGTGAAGG	TTCAGCCAGA	360
TGAGCAAGGA AGGTTGGTTA	GAAAGAGGAG	CTGCTGGTGT	GGCTCCTGTG	AACACAGGTA	420
GATAGGGCAC GATAGAGTCA	GGCAGTTAGA	AGCCAAGCTG	AGGAATCGAC	ACTTGATTCC	480
ATAGGTAAGT AGGGGAACTT	GAGGATGTTT	AATCAGAAAT	GAGATCTCGA	G	531

(2) INFORMATION FOR SEQ ID NO:714:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 499 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:714:

GAATTCGGCC TTC	CATGGCCT AATTTATCC	CATCCTTATCC	CATCCTTATA	AGGAATAATG	60
TATTGAATAA AGA	ATTGTATC AGTATTTGT	ATTCAATAAA	CCAGAACTTG	TGGAAATAAA	120
TATGTAGGAG ACA	ATAAATAT GGTGTCCTC	A AATTGAATTA	TGTGGGAAAA	AAGTGGGGTG	180
GAGTTAAAGT CCA	AGCCAAT AAAGTTGTA	A CATTAAAGAA	AGACAGGTAT	GGGATGCAAG	240
GTGCAAAGAA AAG	GTCATCA TATCTCATA	TGGGGTGAGA	TAGAAGACTT	CCTGAAGTAG	300
GCGATGCCTA TAT	TTGAATCT ATAAGGACA	A ACTGGCATCA	ATATGTCAGG	GAAGACAGGT	360
TGAAGGTGGT CCT	GCCAGAG AAAGGAGCA	A GGATAAAGGC	AAGGAAGCAT	GTAACGTAAT	420
TGTTTGTGGA GAA	ACCTCAA ATCGGCTGA	GAAAAACGAC	TCAGGTATGT	AGTAGGGCAC	480
AGTATAAGTA GGT	CTCGAG				499

- (2) INFORMATION FOR SEQ ID NO:715:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 430 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:

GAATTCGGCT	TCATGGCCTA	GAGATTTAAT	GTTCCCTTAC	CTTGCTGGAG	GAACATCAAT	60
GTTGGAGGAA	ACAACTTTTC	TTTTTTGCTC	AAGGAGACAG	ATGGAGCGAG	TGTTTTCTTT	120
TTCATGGTCA	AGGATCCGGC	TGGCTTTTTT	GGTGTCTGCT	GTTTTCACAT	CTTCCTCCAT	180
GGCCAAGGAA	AACACGTGTT	GATGAGACAT	TTTTTTACCA	CAGTCACGTT	TTAAGTCCTC	240
TGACTGAAAT	GTGAAGGTCA	TTTCCCGCTT	AATGCTCCCC	ACCTGTGAAA	TGAAACACAG	300
AAATTCTTAC	TCACATAAAA	CATCACCTTT	GTACGACTAC	TGCAGATGGC	GGTGAGGAGA	360
GATTACAGAC	ACTGTCCTTC	CTGTTCATCT	GAAAGATTGT	ATTTTTAA	TAAGAAAAAT	420
GCAACTCGAG						430

- (2) INFORMATION FOR SEQ ID NO:716:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 471 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:716:

GAATTCGGCC	TTCATGGCCT	AGACCTTCTG	GGTGAACGAG	GGCAAGCACG	CCAAGTTCCG	60
CTGCTACGTG	ATGGGCAAGC	CCGAGCCCGA	GATCGAATGG	CACTGGGAGG	GCCGCCCGCT	120
GCTCCCGGAC	CGCCGCCGCC	TCATGTACCG	CGACCGCGAC	GGCGGCTTCG	TGCTCAAGGT	180
GCTCTACTGC	CAGGCCAAGG	ATCGTGGGCT	CTACGTCTGC	GCCGCGCGCA	ACTCGGCGGG	240
CCAGACGCTC	AGTGCCGTGC	AGCTGCACGT	GAAAGAGCCC	CGCCTCCGGT	TCACACGGCC	300
CCTGCAGGAC	GTGGAGGGCC	GTGAGCACGG	GATTGCCGTG	CTGGAATGTA	AAGTACCCAA	360

PCT/US98/06956

420 471

(A) LENGTH: 397 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:717:	
GAATTCGGCC TTCATGGCCT AGCCACTCTT AGCAACACAG ATTTTCTTCC AAATTATGCC	60
TTGAAGCTGC TCCCGGAGCC ACCCGCTCAT CAGCACCCTG CTCCTGTGGT CCTTCTCGTG	120
AAAGGCAGAG GGGAGATGCC TGTTGCCCGC AGTCTTCTCT GCAGCTGCCG TGGGAACAGG	180
CACCTTCCCG GCTGCTGGGG ACACAAGGAG GGGGAGTCAC CGTGGCTTGC TCACTTTCCA	240
GATCAGCCAA CTGCAGAACA TTTGTTGTTG TTTAGATCCC ACGTCTGACG GTTTAGAACA	300
GCTTTTATAA CATGTTAAA CATGTTTACA AAGCAAGGGA GACATCTCTT ACCTTGACAA	360
CACGAGGCTC CCACAGACCG CCTTCCCCCA GCTCGAG	397
CACCAGGGIC CCACAGACCO CCITCCCCAA CCICCAG	
(2) INFORMATION FOR SEQ ID NO:718:	
(2) INFORMATION FOR SEQ ID NO. 710.	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 539 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:	
CLASSICO CON TOTAL CONTRACTOR AND ACCURACY AND ACCURACY A	60
GAATTCGGCC TTCATGGCCT AGAAGGAAAG AAATTTTATG TGAGAGAGCA TCTTGTATGG	
CAAATTCTTG TCCTAAAGTA GAATGACTAG GAAAGAGCAA AATATAGGAC AAGTCAGAAA	120
GTCATAAGAT GGGAAAGAAA AACTTACAAC TGCTAGATCT TCTCCTGTCT AGAAGTGTTG	180
TGTGTGTGAT GCTTATATGA AGGTACTCTA ATTAATTGGA TTAAGAGAAA ATGAAACCCC	240
ATCTCTACTA AAAATACAGA ATTAGCCGGG TGTAGTGACA CATGCCTGTA GTCGCAGCTA	300
CTCAGCAGGC TGAGACAGGA AGATAACTTT AACCCAGGAG TTGGAGGCTG CAGTGAGCCA	
AGATCGCGCC ACTGCACTCT AGCCTGGGAG AGACAGAGCG AGACTCCGTC TCAAAAATGA	420
AAAAGTAGAG CCTGGTAGAG TGAAGCCACT TGCAGGAGTC GTTTAGTTAG GGCTGTGTTG	
CCTTACAGTG CTGGTGTCCT CACAGATGAT AATAGTAATA AAAAACACCA CAACTCGAG	539
(2) INFORMATION FOR SEQ ID NO:719:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 387 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:719:	
GAATTCGGCC TTCATGGCCT AGGCAGTGGA TAATTGTCCT CTGGAGGAAC CATCTGTGAC	60
ACATTCTACA TGGTTCCTTA GAGGGTCCCC AAGTGGGATT GAGTCCCTCT TGTTCCTAGC	120
330	

CTCCCGCATC CCCACGGCCT GGTTCCGTGA GGACCAGCGG CTGCTGCCCT GCCGCAAGTA CGAGCAGATC GAAGAGGGCA CTGTCCGGCG CCTCATCATC ACAGGCTCGA G

(2) INFORMATION FOR SEQ ID NO:717:

(i) SEQUENCE CHARACTERISTICS:

180 240

275

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AGTAAGCAGT TCTGTTATAC ACTCTTTATA TGCTTTTCCT CCTTTCCTCT CTGATCCTTC CACCTGTGCT CTGGGTTCAC CTCTCAAGTA AACCACCTGC CTGTCTCAGG CTCCATTTGG GGAAACCAAA CTAAGACAC ACCTCAAAAC ACGAGGCTCC AAATGCCTCA GAAAAGTAAT GTAAATATAA AATGACCAAT ATATTAATCC TAGTTATTTA ACTCGAG	ACACAAGTCC ACAGAATTTC	180 240 300 360 387
		507
(2) INFORMATION FOR SEQ ID NO:720:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:720:		
CCCGTGTATA GTTTGCAAAT ATTTTCTCCT CTTCTGTAGG CTGTTTACTC TTCTTTTGC CATGCACAAG CTTTTTGGTT TAATTAGATC CCATTTGTCA TTGTTGCAAT TGTTTTTGGC GTCTTCATCA CGATATCTTT GCCAGTTCCT TGGTATTACC TAGGTTGCCT TCCAGAGTTT TTATAGTTTT GGGTTTTTAT	ATTTTTGCTT ATGTTCAAAA	60 120 180 239
(2) INFORMATION FOR SEQ ID NO:721:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:721:		
CTCGAGCACT ACCCTAGACG GTCTCATCAC TATACTGGCT CCTCCTTACC TCCCAGGTAC ACTTCCTGAT CACCCTCCGG ATACCTCATC CCTATCTATT ATAATTCCCT GCTCCTCTT CTCACCCACA ATCCACTCGC AGTTCAAGGC TCGACTCCAC TGTCTGTGAG TGCTTCCCAA TATGCCCCAG GACCCCTCCT TCTGTATCCT GACACCCCTT GTAGACGAGT CCCGAAATTC CCGCCCCGTC CCTAGGCCAT GAAGGCCGAA TTC	CCTTTTATAA CTCACTGCCA GGTGTCACGC CCTGGAGCTC	60 120 180 240 300 323
(2) INFORMATION FOR SEQ ID NO:722:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:722:		
GAATTCGGCC TTCATGGCCT AGGCCTGTGG AGCCCCAGCT CTGGGTCCCT CAGGCAGCCA GGCTCCCTCC TGAGCTGAGA AACGGAACCT CGCGAACCAC TCCTTCTCCCT CCCCCCCCC TGATTAGCCC ACCAGCATTC ACAAATTATATT	TGGTGGCACA	60 120

TCCTTCTCCT CCCCCGCCCC TGATCACCCG CCCCCGGATC AGAAATATAT CTATATTCTC GACTAAAGTC TCATCAGGAA ATATTTCCTG TCTTTTATTT TAAGCATCAA ATTGTTTTAG

TTGATTTAAA AAGGAAAAAA TACAGACGAC TCGAG

- (2) INFORMATION FOR SEQ ID NO:723:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 317 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:723:

GAATTCGGCC TTCATGGCCT AAGAAGCAAC AATCATATTA GCTGGGGGAG	GAGGATAGTT	60
TGGTATTTTT GTAGTTTGCA CAGTGACCTT TTTAAAAATC TGGTTAGGCA	AAAATAGTGT	120
GATCTTGTTT GTTGTCTCAC TTCATTATGA TCACAGAATG ACCTGGTATG		180
TTTATGAGAG TGTTATGTTT TAACAGGGGA ACACCGCAGT CAATTCCTAA		240
GTGTCAGTTC TGTTCGTGAC ACCAAGGGCT GTTTTTCTTT TTCTCATATA	ATGTTGAGGC	300
AACCAGGAAG ACTCGAG		317

- (2) INFORMATION FOR SEQ ID NO:724:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:724:

GGCCTCAGCA	GGTGTGAAGC	GTGTGCTTTA	GTTTCGTGGG	AGGCCTGGCA	TCCCCGAGAG	60
GGAGGGGAAA	GGTAACCACT	CCTTTGTGGA	GGTCGCCAGG	GTCATTGTCG	TGGATTTGCA	120
CAGTCGGCTG	GGCGGTGCAA	TGGCGGAAAG	AAAAGGAACA	GCCAAAGTGG	ACTTTTTGAA	180
GAAGATTGAG	AAAGAAATCC	AACAGAAATG	GGATACTGAG	AGAGTGTTTG	AGGTCAATGC	240
ATCTAATTTA	GAGAAAGCAG	ACTCGAG				267

- (2) INFORMATION FOR SEQ ID NO:725:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:725:

GAATTCGGCC	TTCATGGCCT	AAGTCAGTGG	TAAGCCGCAG	CAGTTTCCTG	CCACTCGTAA	60
TATGGCAATT	AAAAATTTTA	AATTTGTGGC	TGCTTGGGGT	CTGGGAGGTG	ACCTGCTCCT	120
CAGCAAATTT	TGACTGATAA	ATTAATGCCT	GGGTCTTCAG	CCTGGTTCTT	TGCTGGCCAG	180
TGTGACAACA	GTCTGTCACG	TCTCTGGGGG	CACATTATAA	TTAACAGATG	TAATCTTTCT	240
CCGGTTCAGG	GTCATCTGTG	AATCAGGGGT	ACTGCCCCAG	TAGAACTAGG	AACATCCAGC	300
AAAAGACTGT	TTTCAAAATA	TACAATTAAG	TGAAAAAAGC	ATGAAGAACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:726:
 - (i) SEQUENCE CHARACTERISTICS:

433

- (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:726: GAATTCGGCC AAAGAGGCCT AGAGGTTGAC CTGAAAAACA ATGAAACACA TGAACACACT 60 TCCGATTTTC TCCTCGCTGA TTAGCTTCCT GCCTGCTGTC AGTGCTGGAC GAAGTGCTAT 120 AACTACTTTA TGTAACATTA CAGAACAGCT CGAG (2) INFORMATION FOR SEQ ID NO:727: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 338 base pairs (B) TTPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:727: GAATTCGCCC TTCATGCCT AGTGGGAAGA TGTGGATGAT GAGAAGGGAG ATAGCAATGA 60 TGACTATGAC TCTGCAGGCC TATTGTCAGA TGAAGACTGT ATGTCTGTGC CCGGAAAAAC TCACAGAGCT ATAGCAGATC ACTTGTTCTG GAGTGAGGAA ACAAAGAGTC GCTTCACGGA 180 GTATTCGATG ACTTCCTCAG TCATGAGGAG AAATGAACAG CTGACCCTAC ATGATGAGAG 240 GTTTGAGAAG TTTTATGAGC AATATGATGA TGATGAAATT GGAGCTCTGG ATAATGCAGA 300 ATTGGAAGGT TCTATTCAAG TAGACAGCAC GACTCGAG 338 (2) INFORMATION FOR SEQ ID NO:728: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 433 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:728: 60 GAATTCGGCC TTCATGGCCT AATTGAATTC TAGAACTCTC CCAGAGAAAC CAGGCAGATA CTGCTCCACA CCGGTGAGCT GCTTCTCACC TGGGTAGTCT AGGGTGGTTT GCTCCAGAAT 120 180 TGTATTTCTG CTTTTTCTTT TTTTAACTTG GCAGTGGTTA ACCATTCCCT GGAGCAGCAC CAGGTAAGTC AGCTTGTATC AGAGTCATCT GCTTTACCTG ACATGAGCAC ACGTTGTCAT 240 300 ATATTTGCAC ATGCAGATAT CATATGTTAA ACAATATCAC ATTGTTGAAG AAAATTACAC TGGAAAGCGT AAAATATAGT TTGGATGCCA TATTGAGTGT AACTTAATCC ACCCGATTCA 360
- (2) INFORMATION FOR SEQ ID NO:729:

GTAGAGACTC GAG

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 315 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

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GAACTITTGT AGAGTGCCTC GGAGTTCCTA TTTGGAAATA TCAGTTAGCA GTTTTAGTCA

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180

223

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:729:	
GAATTCGGCC TTCATGGCCT AACAAGAAAC ACCAAGTACC TCGACCTCAA GAATTCACAA GAGTGCTCC GCTACAAAGA GGTCTGCTAC TACATGCTCT TTGCCCTGGC TGCCTACGGG TGGCCCATGT ACCTGATGCC GAGGCCCGCC TGCGGCCTCT GCCAACTGGC TCGGTCCTGC TCGTGTTGCC TGTGTCCTGC GAGGCCGCG TTCGCCCCTG GAGTCACCAT CGAGGAAGAC AACTGCTGT GCTGTAATGC CATTGCCATC CGGCGCCACT TCCTGGACGA GAACATGACT GCGGTGGGAC TCGAG	180 240
(2) INFORMATION FOR SEQ ID NO:730:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:730:	
GAGTTGTCTC TCTGAATTAA CTTTCTCACC AATAGCTCCT CTTTAAGATC AATAACTCTT ATGTTTGCAC TTTTTAGGCT ATTTTCTAGA TCTTGTATGT GTGTCTTATT ATTTTTTATT CTTTTTGTCT CCTCTGTGAA TTTTCAAATA GTCGAG	60 120 156
(2) INFORMATION FOR SEQ ID NO:731:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:731:	
GAATTCGGCC TTCATGGCCT ACTTGAACCT AGATCTCACC CCCAGGATGT TGCGGAGGCT	60
GCTGGAGCGG CCTTGCACGC TGGCCCTGCT TGTGGGCTCC CAGCTGGCTG TCATGATGTA	120

- (2) INFORMATION FOR SEQ ID NO:732:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309 base pairs

CCTGTCACTG GGGGGCTTCC GAAGTCTCAG TGCCCTATTT GGCCGAGATC AGGGACCGAC

(B) TYPE: nucleic acid

ATTTGACTAT TCTCACCCTC GTGATGTCTA CAGTAACCTC GAG .

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:732:

GAATTCGGCC TTCATGGCCT AAATTATTGC AAAGTGTATA TTGGTTAAAA AAAAAAAGGA GGAAGAGGCA GTTTTTCATG ACGGTTAAAA GTGCAGGATT TGGAGTCCCA TGGTCCTGGG TGTGAATCCT GGCTGTGGCA CTAACTATCT GTGTACTGG CTGTGAACCT CTCGTGCCTC ACTTTCTTCA TCTGCAAAAT GGGTAGTTGT ATAGCAAATG CACATAGAGA ACACTTAACA CTTTGGCACA TTGGAAGCAC TCAGTAAATG TTAATTGTTA TTATTGTTGC TCTAAAGAGA ATCCTCGAG	60 120 180 240 300 309
(2) INFORMATION FOR SEQ ID NO:733:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:733:	
GAATTCGGCC TTCATGGCCT AGATTAATTC TAGACCTGCC TCAGCTCCAC TCCTTATGGT TTGCCACCAT AACCTACAAC ATTTGTCCGT CCACCCACG TGTCTTCTTC CTTTGTGGCA GGAACTCTTA TCTCTGCCTA CCAACCAATT GGTCAGGAGC ATGCACCCTA GTGTCTCAAT CTCCAGACAT TAACATCCTG CCAAACAACC AGACCATCCA GGTTCCTTTA GTGACCCCTA TCTCATCCTC TTCCACATGC AGTAGGCAGG TCTAG	60 120 180 240 275
(2) INFORMATION FOR SEQ ID NO:734:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:734:	
GCAGATCAGA GGCACGTTTC CCACAACTGC GAAGAGGCGC TGAGGCAATT CTGCAAGAAG ATTTTGGGGT TTTGGAAAAG AAGCTATGGA AAACGGAGGG GCAGGCACTC TGCAGATAAG GCAAGTCCTG CTTTTCTTTG TTTTGCTGGG AATGTCTCAG GCGGGCTCTG AAACTGGGAA CTTTTTGGTG ATGGAGGAAT TGCAGAGCGG GAGCTTTGTA GGAAATTTGG CAAAGACCCT GGGACTCGAG	60 120 180 240 250
(2) INFORMATION FOR SEQ ID NO:735:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:735:	
GAATTCGGCC TTCATGGCCT ACACAGACTG GGCAATTTAT AATGAACAGA AGTTTATTTG GCTCTTGGGT CCAGAGGCTA GGAAGTCCAA GAGCATGGTG TCAAGCATCA GGTGAGGATC ATCACCCCGT GGTAGAAGAT GGAAGCCAAGA AGTGAGCCTG TGAAGCAGAA AGTCAACCCCGT GGTAGAAGAT GGAAGCAC	60 120 180

TGGAGTTTTG CTCTTGAGCT CGAG	300 324
(2) INFORMATION FOR SEQ ID NO:736:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:736:	
GAATTCGGCC TTCATGGCCT AAACACATAC CAGATTCTTA GATTCATTTG GTGAAGGAAG CCCTCTGAATT AAAACTTTTA AATATTTCTG ATTTGCAACC AGACGAAAAA GAAGAAAATT GACAACTTTT TTGATGCAAC TTTGTGAAAT CATGGTCTTC CTGGTTTTTC TTGTTGTTG TTTTGTTTTG TTTTGCCACA GTTTAGTTCC TCACCTGATC TTTCCTTGTA TCCACTTCAG AGTCTCGAG	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:737:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:737:	
CTCGAGGGG TGCCAGACAC GGGTCTCCTC CGACTGGGCG GTGCGTGGGA TGCCGCCAGC GTCCAGGTAC TGCGTGATGC GGATGTAGGC GATGCAGCT GACTCGTCGC CCATCAGGTG GATGTAGGA TTCAGGATGC TGGTGTGCAC GGGCTTGCTG TCCCAGGGCCC ACAGGTTTTC AAAATAGAAT CGATGGAACT CCAGGCCCTC AACCAGGTTC CCCAGGGCCT CAGGTTCGAA GGCTGTCATG CCAGGGTCGC ACATCTTCGT GTAGGACTCA AAATCTCCAT TGCTTATGGC TTCAATCAGC TGCTCTGTCA CTTTTATAAT TTCCTGTTTC CGCACTTTGG TGTCTTCATC CTCGATGGTG GTGTTGGTG TCTCTGAGTA GGCCATGAAG GCCGAATTC	60 120 180 240 300 360 409
(2) INFORMATION FOR SEQ ID NO:738:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 466 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:738:	
GAATTCGGCC TTCATGGCCT ACTTTCCCCT CCTTCCTTCC TTCCTTCCTC CCTCCCTCCT	60 120 180 240 300

420 466

AAATAGCCCT GCTTGCAAGC AGGCTCTGTG GTGCAATGGA TAGGCATTG GACTTCTAGC CTAAATCAAG AGATTCAAAA ATAGCCCTGC TAAATATTTG CAATCTTTC TAGGTCCTT TTTCCCCCAA AGTACTTTG GATATCCAGA GTTACCAAAT CTAGATATTG AAATCCTTAG GTTTGAGGGT TGAAAGTGAA AGGCAAGCTG TTTTAATGAA AATTCCTAAC TGAAGAGAG GGAGACTTAA GATGCTTAAA AGGCAAGCTG TTTTAATGAA AATTCCTAAC TGAAGAGAG GCTCGAG (2) INFORMATION FOR SEQ ID NO:740: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:740: GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGGTTTC CTCACAACTT CCAAGAGACC ACCTACCTGA AGCCCACTTT TTGGTGACACA CTGGGGGTT TCTCTCTGGGG AGTGATCAAA ACAAGGATAT GAGTATAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCGATG TAAGAAGCCAGC CTACTTCATG GTGTTTGGAT GTAAGAAGCCAGC CAGGCTTC CAGGAGACC CACCTTCAAGAGACC CAGCTTTGAGT GTAAGAAGCT CAGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT GTGTTTGGAGAC GTGTTTGAGT GTAAGAAGCCAGC CAGGCTTC CAGGGATG CACCTTCAAGAGACC CAGCTTCAAGAGACC CAGCTTCAGC CAGCCTCACA AGCCCACTTCATC CAGGGATG ACCCTACTCAGA GCCCTTCCCCCACGCCCACGCCCCACTGCCAACC ACCCTCACA GCCCTTCCCCCCCCCAGCCCCCCACTGCCCAACCCCCACTGCCCAACCCCCCACTGCCCCCCCC	(2) INFORMATION FOR SEQ ID NO:739:	
GAATTCGGCC TTCATGGCT ACATTCTGCA AACTATTTG TTATTAGCTT TTTCACTTAA AAATAGCCCT GCTTGCAAGC AGGCTCTGGG GTGCAATGGA TAGGCCATTG GACTTCTAGC 1.2 CTAAATAATCAAA GAATTCAAAA AATAGCCCTGC TAAATATTG CAAATCTTCC TAGGTCCTT TTTCCCCCAA AGGACTTCTAGA AGGCCATGG GATATCCAAAA CAAATCATTG TGAAAAAATCAAAA GAGAAGTGAA AGGCAAGCTG TTTTAATGAA AATTCCTAAC TGAGAACTTAG GATTTCCACCAA AGGAAGTTAAA ATTGGTCACA ACCTGAGGGG TATTTGTTTG CATGGCAGGA GCGAGACTTAA GAGCCTTAAAA TTTTGGTCAC ACCTGAGGGG TATTTGTTTG CATGGCAGGA GCGAGACTTAA GAGCCTTAAAA TTTTGGTCAC ACCTGAGGGG TATTTGTTTG CATGGCAGGA GCTCGAGG (2) INFORMATION FOR SEQ ID NO:740: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:740: GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG ACAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC ACAGCAGACT GAATCTAATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC ACAGCAGACT GAACCACTTT TTGTGACAAC TGTGCTGGAT TTCTTGTGGG AGGTACAAA GAAGCAATTC GATGTAAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT GGTGTTTGAGT GTAAAGACTGCAGAC CGAGCCACTT TTGTGACACAC TCCACACTT CAACCTGCAGACC CCACCTGAGCCC CAACCACTT INEACCAGAC CAACCACTTACAC CCACTGAC CCACTGAC CCACTGAC CCACTGACC CCACTGACCC CCACTGACCC CCACTGACC CCACTGACCC CACCACTGAC CACCCTTCAG CCACTTCAGC CCACTGACCC CCACTGACCC CACCACTGCACC CCACTGACCC CACCACTGCACC CCACTGACCC CCACTGACCC CCACTGACCC CACCACTGCAC CACCACTGCAC CACCCTTCAG CCACTTCAGC CACCTTCACCCCAC CCCACTGCCC CACCACGCC CACCACGCACCA CACCACACACAC	(A) LENGTH: 367 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GAATTCGGCC TTCATGGCCT ACATTCTGCA AACTATTTG TTATTAGCTT TTTCACTTAA AAATAGCCCT GCTTGCAAGC AGGCTCTGTG GTGCAATGGA TAGGCGATTG GACTTCTAGC CTAAATCAAG AGATCAAAA ATAGCCCTGC TAAATATTG CAATCTTTC TACGCTCCTT TTTCCCCCAA AGTGACTTTG GATATCCAGA GTTACCAAAT CTAGTATTTG AAGTCCTTAG GTTTGAGGGT TGAAAGTGAA AGGCAGGCTG TTTTAATGAA AATTCCTAAC TGAAGAGAG GGAGACTTAA GATGCTTAAA TTTTGGTCAC ACCTGAGGGG TATTTGTTTG CATGGCAGGA GCTCGAG (2) INFORMATION FOR SEQ ID NO:740: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:740: GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGCTTTC CTCACAACTT CAAGAGACCA CACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGGTGGAT TTCTCTGGGG AGGAGCAAA CAACGATATC GATGTAAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT GTGTTTGAGT GTAAGAAGC CGGG (2) INFORMATION FOR SEQ ID NO:741: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGGGC CCCAGGCCTC TGCTCCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGGGC CCCAGGGCTC TGCTCCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG ACCCCCCGCCA CCCACAGCC CACCAGCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGGGC CCCAGGGCTC TGCTCCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG ACCCCCCGCCA CCCACAGCC CACCAGCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGGGC CCCAGGGCTC TGCTCCACACA ACCACCAGTCA CCACCTTCAG CCAGTCCCTG TTTGGCAAAC CTCCGCCC GGCCACAGG ACCGCCACTG CCACCTTCAG CCAGTCCCTG CCCACTGCCA CCCCACAGCG CACCACAGCA ACCACCAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCA CCCCACAGCG CACCACAGCA ACCACCACTCACA TTCTTGTGCAGC ACCCCCCCCCCCCCCGCCCCGC CCACGGCACGCACCACCACCACCACCACCACCACCACCAC	(ii) MOLECULE TYPE: cDNA	
AAATAGCCT GCTTGCAAGC AGGCTCTGTG GTGCAATGGA TAGGCATTG GACTTCTAGC CTAAATCAAG AGATTCAAA AATAGCCCTGC TAAATATTTG CAATCTTTCC TAGGTCTTT TTTCCCCCAA AGTGACTTTG GATATCCAGA GTTACCAAAT CTAGTATTTG AAGTCCTTAG GTTTGAGGGT TGAAAGTGAA AGGCAAGCTG TTTTAATGAA AATTCCTAAC TGAAGAGAGC GGAGACTTAA GATGCTTAAA TTTTGGTCAC ACCTGAGCGG TATTTGTTTG CATGGCAGGA GCTCGAG (2) INFORMATION FOR SEQ ID NO:740: (i) SEQUENCE CHARACTERISTICS:	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:739:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:740: GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACCTT CCAAGAGACC ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTTGGGG AGTGATCAAA (2) INFORMATION FOR SEQ ID NO:741: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGGGCC CCCAGGCCTC TGCTGCCAGC ACCACTGCAC CCACTCCCTCTC TTTGGCAAAC CTCCTGCCTT GCCCACCAACC ACCACTGCAC CCACTTCCAC GCCTTTCCTC TTTGGCAAAC CTCCTGCCTT GCCCACCAACC ACCACTGCAC CCACTTCCAC GCCTTTTGGCACC ACCCCTCCCCT	AAATAGCCCT GCTTGCAAGC AGGCTCTGTG GTGCAATGGA TAGCGCATTG GACTTCTAGC CTAAATCAAG AGATTCAAAA ATAGCCCTGC TAAATATTTG CAATCTTTCC TACGCTCCTT TTTCCCCCAA AGTGACTTTG GATATCCAGA GTTACCAAAT CTAGTATTTG AAGTCCTTAG GTTTGAGGGT TGAAAGTGAA AGGCAAGCTG TTTTAATGAA AATTCCTAAC TGAAGAGAGC GGAGACTTAA GATGCTTAAA TTTTGGTCAC ACCTGAGCGG TATTTGTTTG CATGGCAGGA	60 120 180 240 300 360 367
(A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:740: GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTGGGG AGTGATCAAA CAAGGATATC GATGTAAAGA CTGCGGGATG AACTATCCAA AACAATGCAA AGATCTGGTT GTGTTTGAGT GTAAGAAGCT CGAG (2) INFORMATION FOR SEQ ID NO:741: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGGGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CATGTCCCTG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CACTTCAGC CCCACTGCCG TGCCAACCGC ACCACCAGC ACCACCTTCCAG CACTTCAGGCCACCCCCCACCCCCCGCCCCG	(2) INFORMATION FOR SEQ ID NO:740:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740: GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC 12ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTGGGG AGTGATCAAA 18ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTGGGG AGTGATCAAA 18ACAAGGATATC GATGTAAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT 24GTTTGAGT GTAAGAAGCT CGAG (2) INFORMATION FOR SEQ ID NO:741: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC ACCGCTGCCG ACCTTTAGTGG TTTTGGCAGC ACCCTCGCCG TGCCAACGGC CACCAGCCA AGCCCACGTC CAGTCCCTG ACCCTCGCCG TGCCAACGC CACCAGCCA AGCCCACGTC CAGTACACGC ACCCTCGCCG TGCCAACGC CACCAGCCAC ACCCACGTTC CAGTACACCG ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCCCA TTCTGGCGTT CAGTACACG	(A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTGGGG AGTGATCAAA CAAGGATATC GATGTAAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT GTGTTTGAGT GTAAGAAGCT CGAG (2) INFORMATION FOR SEQ ID NO:741: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGG CACCAGGAG AGCGCTGCCG ACTTTACTGG TTTTGGCAGC ACCCTCGCCA CCTCCGCCCC GGCCACCAGG AGCCACCA TTCTGACGTT CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGG AGCCACCA TTCTGACGTT CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGG AGCCACCA TTCTGACGTT CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGG AGCCACCAC TTCTGACGTT CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCACCAC TTCTGACGTT CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCACCACTTCTTCTTC CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCACCACTTCTTCTTCCACGTT CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCACCACTTCTTCTTCCACCACTTCAGC CCAGTAACACCACCTTCAGC TTTTTTTTTT	(ii) MOLECULE TYPE: cDNA	
AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTGGGG AGTGATCAAA CAAGGATATC GATGTAAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT GTGTTTGAGT GTAAGAAGCT CGAG (2) INFORMATION FOR SEQ ID NO:741: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACCAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC ACCACCTCCAG TTTTTGGCAGC ACCCTCGCCA GGCCACCAGC AGCGCTGCCC ACTTTAGTGG TTTTTTTTTT	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACCAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC AGCGCTGCCG ACTTTAGTGG TTTTGGCAGC ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGGCCCA TTCTGACGTT CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGGCCCA TTCTGACGTT CAGTAACACG 300	AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTGGGG AGTGATCAAA CAAGGATATC GATGTAAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT	60 120 180 240 264
(A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC ACCACAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC ACCACTTCAG CCAGTCCCTG ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGCCCA TTCTGACGTT CAGTAACACG ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGCCCA TTCTGACGTT CAGTAACACG 300	(2) INFORMATION FOR SEQ ID NO:741:	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:741: GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC AGCGCTGCCG ACTTTAGTGG TTTTGGCAGC ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGCCCA TTCTGACGTT CAGTAACACG 30	(A) LENGTH: 318 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC TTCGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC AGCGCTGCCG ACTTTAGTGG TTTTGGCAGC ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGCCCA TTCTGACGTT CAGTAACACG	(ii) MOLECULE TYPE: cDNA	
TTCGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC AGCGCTGCCG ACTTTAGTGG TTTTGGCAGC ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGCCCA TTCTGACGTT CAGTAACACG 3 CCCACCTCGCCAC CCCCCCC CGCCACCAGC AGCCAGCCCA TTCTGACGTT CAGTAACACG	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:741:	
	TTCGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CCAGTCCCTG CCCACTGCCG TGCCAACGGC CACCAGCAGC AGCGCTGCCG ACTTTAGTGG TTTTGGCAGC ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGCCCA TTCTGACGTT CAGTAACACG	60 120 180 240 300 318
337	337	

ATTCAGTTGC ATTTTTGCTG AGATAGTGCT GTTACCAAAA GCAGGGGTGC TGCTTGAAGA AGTAAACCTA ACTCTGAAAAA ATAGAGACTC TCCAGAAACA CTCGAG

- (2) INFORMATION FOR SEQ ID NO:742:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:742:

GAATTCGGCC	TTCATGGCCT	AAGAAATGAA	AAAGATTATT	GAAACTATGC	CAATGACTGA	60
GAAAGTTGAA	GAATTGCTGC	GTGTCATAGG	TCCATTTTAT	GAAATTGTCG	AGGACAAAAA	120
GAGTGGCAGG	AGTTCTGATA	TAACCTCAGT	CCGACTGGAG	AAAATCTCTA	AATGTTTAGA	180
AGCTGAAAGC	AGTGACAGTG	GAGCCGAGTC	TGAGGAAGAA	GAGGCCCAAG	AAGAAGTGAA	240
AGGAGCAGCC	CTCGAG					256

- (2) INFORMATION FOR SEQ ID NO:743:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 580 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:743:

GAATTCGGCC	TTCATGGCCT	ATGTTTTTAT	AGCACCGATG	GTACTGTTTT	ATTTATTGCC	60
AATAGACCAC	AACATTCACA	TCTGTTTTTC	CTCAAGGGAA	CCGTATTTGC	TTTTGGTTGA	120
AGGATTTATC	TATTTGATAC	TATCCAGAAT	ATTGTGAAGC	TATAATTTCC	TGGGTTATAT	180
TTTAGATGGG	TTGTCTGCAT	GGTGGTAAAA	TAAGCTTTTT	CCTCTCGCCT	ACGTCCTTTG	240
GAAGATCTCC	TGATCATACA	TAACTAGGTA	GGGCTTATTC	TTGCTGCCGG	AGCTTGGCAC	300
CCAGCTCTAG	ACTGTTTCTT	TGAGCATTAC	TGCAGATTGG	AGACGTGTGT	GAGAGGAGCA	360
GCGCTCAGAA	ATAGGGCTTG	AGGCTCAAGC	AGAAACTGAA	GCTCTCATTC	AAATGAAGAT	420
GCTCTCTCTA	CCGCACGATC	GGCAGTGAGA	AAAGGAGGAT	GAAAATCCTT	CTCATCACAA	480
AGAGCTTGAA	GGAACCCACG	TCCCCAGATT	AGCAACCCTA	GAGTTCATCT	GCTCAGGCCG	540
GGAAATGTGT	AAGCTTCCTT	GATCAACTCC	AGGCCTCGAG			580

- (2) INFORMATION FOR SEQ ID NO:744:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 374 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:744:

GAATTCGGCC	TTCATGGCCT	ACCCAGAGAC	TCGCGGACGC	TCACGATAAC	CAAGGACGAC	60
CGCGAACCAA	GGGCAAAATA	ACATGGCAGC	CAGACGAATT	ACACAGGAGA	CTTTTGATGC	120
TGTATTACAA	GAAAAAGCCA	AACGATATCA	CATGGATGCC	AGTGGTGAGG	CTGTAAGCGA	180
AACTCTTCAG	TTTAAAGCTC	AAGATCTCTT	AAGGGCAGTC	CCAAGATCCA	GAGCAGAGAT	240
GTATGATGAC	GTCCACAGCG	ATGGCAGATA	CTCCCTCAGT	GGATCTGTAG	CTCACTCTAG	300
AGATGCCGGA	AGAGAAGGCC	TGAGAAGTGA	CGTATTTCCA	GGGCCTTCCT	TCAGATCAAG	360

CAACCCCTCT CGAG

(2) INFORMATION FOR SEQ ID NO:745:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:745:	
GAATTCGGCC AAAGAGGCCT ATTGGTTTCC CTGCTTCCAT TCTTACTCCC CTACACTCTG TTCTCCAAAA AATAACCATT GTGATCCTTT AAAATCCTGA CTCTCTCTG CTCAGAGTCA TCCAGTGGCT TCCCATATCA CGTAAAATGA AACCCCAATC GCTCCTTACT CTGGCCTGCA GGGGCCTGTG TGATGGGCCT TCTCCAGCTT CGTTCTTCCT TTCCTTCTGT TCTCCCCTCT GCTTACCTAC TCCATCTCA GGGCTTCTTT CCAGCTCAAG CCCTTTCCTG TTGAGAGCAT TTGCTTTCCC CAGGGCACTC GAG	60 120 180 240 300 323
(2) INFORMATION FOR SEQ ID NO:746:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:746:	
GAGAACAGTG TTACCAAAGA AAAGGACATG TTCAATTTCA AACGAGCCCA GGAGGACATC TCTAGACTTC GCAGGAAGCT GGAGACCACA AAGAAACCAG ACAATGTACC CAAGTGTGAT GAGATTCTGA TGGAAGAGAT TAAGGATTAC AAGGCACGCT TGACCTGTCC ATGCTGTAAC ATGCGTAAAA AGGATGCTGT TCTTACTAAG TGTTTTCATG TCTTCTGCTT TGAGTGTGTG AAGACACGCT ATGACACCCC CCCCGCGCTC GAG	60 120 180 240 273
(2) INFORMATION FOR SEQ ID NO:747:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 666 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:747:	
GAAGATCTTC GCTGTCCTCT CTGCCTCTAT CACACCAAAT ACAAGCGCAA CATGATTGAC CACATCGTGC TGCACCGAGA AGAGCGTGTT GTCCCCATTG AAGTTTGCCG GTCCAAACTG TCCAAATACT TGCAGGGAGT AGTTTTCCGC TGTGATAAGT GTACCTTCAC CTGCTCCAGT GATGAGACCC TCCAGCAACA TATAGAAAAG CACAATGAAC TGAAACCTTA CAAATGCCAG CTCTGCTACT ATGAGACCAA GCACACGGAG GAACTGGACA GCCACCTTCG GGATGAGCAT AAGGTAAGCC GTAACTTTGA GCTGGTTGGA CGGGTTAACT TGGATCAGCT GGAACAGATG AAGGAGAAAA TGGAGAGCT CAGCAGCGAT GATGAGGACA AGGAAGAAGA AATGAACAGC AAGGCTGAAG ACAGAGAGCT GATGAGATTT TCTGACCACG GGGCTGCTCT TAACACTGAG	60 120 180 240 300 360 420 480
220	

CATGTGCTGA	CATGTGAATT TTGTGGACGG GCGTTTTCAC AGGGCTCTGA GTGGGAAAGA GACACGGCAT GGCATTGAAT GACACCAAGC AGGTGAGCAG AGAAGAAATC AGATCATGGA GAACAGTGTT AAAATGCCCT CCATAGAGGA AAAGGAAAGT	540 600 660 666
(2) INFORM	ATION FOR SEQ ID NO:748:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:748:	
AAGCTACTGT GAAATTAGAC GGGTTTGGTT TGAGATTCAG	AAAGAGGCCT AACAACCGAA TATAGTACAC GACCTTCCTG CAGCAGTTCT CAAGTATGGA AAATCCCGGC AATTCTGTAC TTGTGTTATA CTGATGTGAT CTAATCACAG TGGAAGCATT TAAGCCTATA CTTTCTACCA GAAGCTTGAA AAGAATATTC CCCAAAGCAC TGAGATACTA AAGAAATTGA TGACAACNAA AGTAACATTT ATACATGATC TTAAACATTG TTTTGTAGTG TATATTACTT TTAAGGGGAG CAGCCTGCAC TCTTTTGTAG ATTACTTTTG GGGGATATAT ATGAAACGG	60 120 180 240 300 360 379
(2) INFORM	ATION FOR SEQ ID NO:749:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:749:	
TCACACCCCA GTTGGGGAAG CCCTCGTCTC ATGCCACGTG	TTCATGGCCT AGGCGCAAGG CCGAGCGTTC CCAGCAGGGG GAGAAACCCT GGCCCTTCAG GAACTGGGGC CTTGCCTTG AGCCACATGG CCCCATCCCA CCAGGTGAGC TCTGACCCTT GGGCCTGGGC CTCTGCCCCT CCCAACCCAG CCTCGACAGC GCCCTGCTG TCTTCCCCAC CGCAGTCACC ACCACCCGAA GTCACTGTGC ACTGCCCTGT TCATGTGCCT CTGCGGGGCA GGGCCTTCCT ACTGCTGTAC CCAGATAGCC TCGAG	60 120 180 240 300 335
(2) INFORM	ATION FOR SEQ ID NO:750:	
(i) _.	SEQUENCE CHARACTERISTICS: (A) LENGTH: 648 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:750:	
CAGCAGCAGC	AAGAACTGAA TATGCTCCGG GAACAGACCA CTGGGCTGGC AGCTGAGTTG AGGCTGAGTA CGAGGACCTT ATGGGACAGA AAGATGACCT CAACTCCCAG CATTACGGGC CAATAGTCGA CTGCTGGAAC AACTTCAAGA AATAGGGCAG	60 120 180

60 120

GAGAAGGAGC AGTTGACCCA GGAATTACAG GAGGCTCGGA AGAGTGCGGA GAAGCGGAAG GCCATGCTGG ATGAGCTAGC AATGGAAACG CTGCAAGAGA AGTCCCAGCA CAAGGAAGAG CTGGAAGCAG TTCGTCTACG GCATGAGAAG GAGGTGCTGG GGGTGCGTGC CCGCTATGAG CGTGAGCTCC GAGAGCTGCA TGAAGACAAG AACGGTCAGG AGCAGGAGCT CCGTGGGCAG ACTCCGAGAGCT CATGGAAGAC CTTCAAGCTC AGGTACATTC CATGGATGGA GCCAAGGGCT GGTTTGAACG GCACTGAGAC AATCCCTGCA GCACACGAG CAGGAACAAG AGGAACCCT CAAGCAGTGT CGGGAGCAG AATCCCTGCA GCTGAAGGGC CAGGAACAAG AGGAAGCCCT CAAGCAGTGT CGGGAGCAGC ACCGTGCCGA GCTGAAGGGC CGCTCGAG CCCTCGAG CCCTCCACCTCCCCCCCCCC	240 300 360 420 480 540 600 648
(2) INFORMATION FOR SEQ ID NO:751:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:751:	
GGAAAGAATC TAAAAGAAGA GAAGCGACCG GTGCTTTTAA GGGTGTCTAA TTTTCAAAAG AGACGTCTGG GAGTATTTG CTCTGGGCGT TTGGGTGAGC AGGACCGGGG CGTTGGAGGG TGCGGCGGGC TTGGGAGCAG GGAAGGTTCC GAGTCCTAGG GAGGCGGCAG CGCTCGGCTA TGCCCTCTGG AGACTGGCGG GCTGCGGGG CCGAGGGGA CCGCGCTGC GGACGCGCTG AGCGCGGGAG CTCGAG	60 120 180 240 266
(2) INFORMATION FOR SEQ ID NO:752:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:752:	
GAATTCGGCC TTCATGGCCT AGGATGTTTT AAGGCTAGGC CTGAGCGAGG AGGAGGCAGG GGAGACCTGG CAGGTATTGA AGTACCTGGG AAGAAAGGCA ATGGGGATGG TGGTCCTGCT CCAAGATGAT AAGTGGAGGC TGAGCGTCAC TGGTACTGGG GGCCATGATC CCCAGGGCCA CCCTGGCACC AGGGTGCAGG GGATGCGGGG CCTGAGCAGG AAGAACAGAG ATCTGCGGGC TGCACCGACC CATCCCTGCC CCTAGGCTGA AGAACGGCAT CACTCGAG	60 120 180 240 288
(2) INFORMATION FOR SEQ ID NO:753:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:753:	

GCTTCAGATT TAGAAGAAA	GATCCTGTTT	CCATTTGAAA	GGAACTGTAA	GCTTTTATCT	180
TTTAACCAAC TGAACAATAC	CACCAAAAGCA	GCCTAGGGAT	GAGCATTTCT	TTGAAAGCAA	240
TTAGGTTATT CACCTGGTAT	TAAAACTATT	TACTGTTAAA	AAATCTGTGA	CTTCATGAAG	300
TTGATTTTTA AAGGCAGCAT	CAAAAACTGA	AAAGGAAGGG	AAAAAATAGG	CAGCTTCTCT	360
GCACTTGTTT GGAGCTCCC	AAAACAGGAG	CCATGGAGAA	GTGGCATCAA	GACCGGGCTG	420
CCCTTTCGAG AACACCCTGT	GGCAGTTCAG	AGACACGCTT	TTCCTACACT	GCATGCAGCC	480
GCTCGAG					487

- (2) INFORMATION FOR SEQ ID NO:754:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:754:

GCTGGGTTTA	GGCGATCCTC	TTGCTTCAGC	CTCCCAAGAA	GCTGGAGCCA	CAGGCATGCA	60
CCACCACGCC	CAGTTAATTT	TTGTATTTTT	TGTGGGGACG	GGGTCTCACT	TTGTTGCCCA	120
GGCTTATCTG	GAACTCCTGG	TTTCAGGCAG	TTCTCCTTCC	TTAACCTCCC	AAAGTGCTGA	180
GATTATAGGT	GTGTGTGAGC	TATCACACCT	GGCCTAGAAA	ATTATAAGAA	AATATTAATC	240
ACATAATCTC	ACTACCCATT	GATGATTTAA	CATCTAGTAT	ATACATATGT	ATATATAATT	300
TTAAAAGTAG	GGTTATATTA	TATAATTACT	TCATTATTCT	TGTTTTCCAC	TTAATATACT	360
TAAGATATCT	TTCAAAATCA	CTAAATACAG	GAACATAGTA	TATCATCTTT	CAGTAGCCTC	420
ATTGTATAGC	TAACCCCCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:755:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 584 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:755:

GAATTCGGCC	TTCATGGCCT	ATTGATTTCC	TGGGCTCAGG	AGAGGATGGG	GAAGGGGCTC	60
CAGACCCTCG	GCGGTGCACT	GTGGATGGGA	GCCCCCATGA	GCTGGAAAGC	CGTCGGGTCA	120
AACTCCAAGG	CATTCTGGCT	GACCTGCGGG	ATGTGGATGG	GCTGCCCCCA	AAAGTGACTG	180
GCCCGCCTCC	TGGCACACCC	CAGCCCCGGC	CACATGAAGG	TTCCTTTGGC	TTCTCCTCAG	240
ACGTCTTCAT	CATGGACACT	ATCGGGGGCG	GGGAGGTGAG	CCTGGGGGAC	TTGGCAGATC	300
TCACCGTCAC	CAACGACAAC	GACCTCAGCT	GCGATCTGTC	TGACAGCAAA	GATGCTTTTA	360
AGAAGACGTG	GAACCCCAAG	TTCACCCTGC	GCTCGCACTA	CGACGGCATT	CGTTCCCTGG	420
CCTTCCACCA	CAGCCAGTCG	GCTCTGCTCA	CCGCCTCCGA	GGACGCCACG	CTCAAGCTCT	480
GGAACCTGCA	GAAGGCGGTC	ACGGCCAAGA	AGAATGCGGC	GCTAGATGTG	GAACCTATAC	540
ATGCTTTCCG	GGCTCACAGG	GGCCCAGTGT	TGGCTGGACT	CGAG	•	584

- (2) INFORMATION FOR SEQ ID NO:756:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:

GAAATTAAAA AAATAAAATC AAGTTCTTGG GTGGTGGGAA ATTGGCCTGT ATTTTT	TCTT 60
CTCAGTGGAA TTTGCTGAGT AAAAAATTAT AGGCTCAAAA ACTGAGAACT TTGAAG	ATAT 120
TGCACCATAT TCTTTTTGTA TTGAGTGTTG CTGATGAGAA GTCTGAGGTC AGTCTG	TTGC 180
TTGCTCTTTC TAGGTAAACT GTGCTTTTTA TATTTTTTCC CCTCTAGAGG TTTTGA	GAAT 240
TTACTCCTTA TCCATGTTAT TCTTAAATTT CACCACATTC TCGAG	285

- (2) INFORMATION FOR SEQ ID NO:757:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 310 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:757:

GAATTCGGCC	TTCATGGCCT	AGAATGCTTT	GAATCCATAT	CTTTTTCAGA	AACATACATG	60
GAAATACAGA	ACTACACCTG	TAATTAÇAGA	GGGCATATGA	ACCCTAGTTT	GATAAGCCTT	120
			TGTATTTAAT			180
			TCCTAATGAG			240
ATTCCTCTTG	TTTTAGTGCT	CAAAAATAGT	TTCATTTTTA	GGTATTTATG	CTTTAGTGGC	300
CTTTCTCGAG						310

- (2) INFORMATION FOR SEQ ID NO:758:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 196 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:758:

GAATTCGGCC AAAGAGGCCT	AAGAAAAGAA	AGCAAGAACA	GAAAACGAAG	CCACAGGAAG	60
GGAAGTAGAC ATTGTATGCT	TATGGTTTCT	CATTATGAAG	GTGCAGCTTG	TAGGAGGTTT	120
GTACGGATGT GCTTTGAAGT	TATGTATATT	ACATATAACA	GGAAAAAATA	TTAAAATAAA	180
CAGTGCTGGT CTCGAG					196

- (2) INFORMATION FOR SEQ ID NO:759:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 360 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:759:

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AAGTCAGATA GAGGTAAGTA CGAAGACAAC IGCCTTCACA TGGTCTGCAT TCTAGTGGAG AAGTCAGATA GAGGTAAGTA CGAAGACCAC AAAGCAGGTT AAAAAGTAAG GTGGGAAAGG GATGCTATTT TAGACAAGGT GGTCAGGGCA AGCCTCTCAG AAGAGGGGAT AAGTCTCAG AGACCTGACT GAAGTGAGAG TGAGCTATTG ACACGGAGAA GGGCATTTCA GACTCTGAAG AGAAAGCAGG GGCAGGCTTT GGAGGGAGAG CTTGTTTATG TAGACAAGGA GGGCAAAGA GTCTTGTGGA TAAAGCAGAA TGAACAAGAG TAAATGGGAT TGTAAATGAA ATGACTCGAG	120 180 240 300 360
(2) INFORMATION FOR SEQ ID NO:760: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:760:	
GGACATATGC AGTCAAAAGT AGGTGCCCAT ATATATAATG AAATACCAAA AGGACAATTT AGAAGGTTGA ATGGAAACAT TATGGCATGC TTTAGACGTT CTGTTTTTGGT TTTCTTATTC CCAGTCTTTG ATCTTTTAGG TCTATCCATT GGTAAAGATA TATTAGGACT CACATCAACT CAAGGTCTCG AG	60 120 180 192
(2) INFORMATION FOR SEQ ID NO:761: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:761:	
GAATTCGGCC TTCATGGCCT AGTTTATTGC TCCCAACTAT ACATCTTCAG ACTTCACTTA GCATGTTACG GGTGGTTAGG TTCCAGGATT ATTGAGATCT ATTTCTACTC ACAATTGCTT ATAAAATGAA ATCTATCGTC ACCTTAATTG CCTGTGCCTA AAAATATAGC ATGCTTGTCT GTGGGAAAT ATTCAGCCTG GTATGTGAGT GACTCAAATG CAACTCCGTG GAAACACCCC AACTCCACAC ATTCATCCCC TTGGTAACTC AGCACAGTCA CAGAAACTGA AGAAGTAAAA GGATCCTCTT TATTTGGCTT CTCGAG	60 120 180 240 300 326
(2) INFORMATION FOR SEQ ID NO:762: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:762:	
SAATTCGGCC TTCATGGCCT ACTGGCCCAA GTGAAACTTT TAACAGGCTT TTTGGAGATC CCTTTAGCTA GATCCAAAAA TTCATCAGGT ATATTTTCTG TTTTCCAAGT TCATGCAGGC AATAGCTTTG CTAATATATA ATACTAGTTG CCTTGTTCAA GCTGCCATAT CAGTTTCATC	60 120 180

(2) INFORMATION FOR SEQ ID NO:763:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pai (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ	ID NO:763:
GAATTCGGCC TTCATGGCCT AAAAATGAAT ATAT CTAACCTAAA AGTTTATTCT GTTTTTAAAA TAAA CTGACGGAGA TATGCCCTGC CCCCTCTCTA GAGT CCACAGGCAG CCAAGTGCCC ACACATTTCC AGGC GGTCACCAGG GACACGCACA CCTAGAAAGC CGTG	TGAAAG TATTTGTATG GGCCCTGGGC 12C GCTGGG AATTCTCAGG TGACCCAGTC 18C TGCCCT CCACCAGGGC AGCGACCTCG 24C
(2) INFORMATION FOR SEQ ID NO:764:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pai (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ	ID NO:764:
AATTCTTTAT CATTTCAGAT ATTAAGGATT TCAGGGTTACAAGAA TATTTGTTC CTGAGACATC TCAGGGCACAGAATA GGATAGTGTG AAGTATCTGA TTAGGCTTCAGCCA GAGGTGATTG GAGGGATTTG CACGTATCTCC CTTTAGTGCC TGCTTTTGAA CTTTTAATCTCTATA ATTTCTTCT TTCCCTTAGC ACGT	TATTAT AGGTGGCTTC AGACTAACAG 120 CTTTAC TGTACTTGGT ACCTTTAGGA 180 TCTACC ACTCGTGTGT GTATCTGTGA 240 ATATAA ACAGAATGAT GCTGCCTGTT 300
(2) INFORMATION FOR SEQ ID NO:765:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pai (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ	ID NO:765:
GAATTCGGCC TTCATGGCCT AGAGAATGTT TTCA CTATAGGGTG ATAGATTGGT CCAATTGGGT GTAT	
(2) INFORMATION FOR SEQ ID NO:766:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pai (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:766:

GGATTGAATT	CTAGACCCTG	CCTCGTCATT	GTGGAACCCA	TGGAGCAGTT	TGATGATGAA	60
GATGGCTTGC	CAGAGAAGCT	GATGCAGAAA	ACTCAACAAT	ATCATAAGGA	AAGAGAACAA	120
CCACCACGTT	TTGCTCAACC	TGGGACATTT	GAATTTGAGT	ATGCATCTCG	ATGGAAGGCT	180
CTTGATGAAA	TGGAAAAGCA	GCAGCGTGAG	CAGGTTGATA	GAAACATCAG	AGAAGCCAAA	240
GAGAAACTGG	AGGCAGAAAT	GGAAGCAGCT	AGGCATGAAC	ACCAATTAAT	GCTAATGAGG	300
CAAGATCTAA	TGAGGCGTCA	AGAAGAACTC	GAG			333

- (2) INFORMATION FOR SEQ ID NO:767:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:767:

GAATTCGGCC	TTCATGGCCT	AGATAATATT	TTATGTTCAT	TGTGTGTTAG	ACTGTGTTGA	60
AGTGGAAACT	TTGGAACATT	GTTGGAACCA	GTAAGAATCC	CATTCCTCAG	GTATCAGGTC	120
GTTAAAGTAG	${\tt TTTAAAATAA}$	CGTATTCCTT	AATTTTCCTC	AGCAGGTTCC	CCCTCCCTTT	180
AACTTGTGTG	TATAAATATA	TGTGTGTGAT	GTTTTCTCTT	ACAAAGATAG	TACTCGAG	238

- (2) INFORMATION FOR SEQ ID NO:768:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 234 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:768:

GAATTCGGCC	TTCATGGCCT	AGGGATCCCA	CCTTTTACAT	CCTAGGTGTG	AACAGATTCA	60
AATCCACTAT	TCCTCCAGAT	TTTATAGATG	AGGAAACCAA	GGTGCACAAG	AGGGATTTTT	120
TTGTTTTGTT	TTTTGTTTTT	GTTTGTTTTT	GAGACAGGAT	TTTGCTTTGT	TGCCCAGGCT	180
GGAATGCAGT	GGCACAAACA	TGGCTCGCTG	CAGTCTCGAA	CTCCTACGCT	CGAG	234

- (2) INFORMATION FOR SEQ ID NO:769:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 291 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:

GAATTCGGCC TTCATGGCCT ACGGAATGAG AAGATGAAAA ATCAAATTAA GCAGATGATG

CTTAAGCTAA GAAGATGACC	GGACACAGAC TGCAATATCG GTAGTTGAAG AGGATCTAAA GCTTTTACAG GAGCCTCCGT GTCCACTAAA TGTAACCTGG AAGACCAGGT AAAGAAATTG GCAACTCACT ACAAGCTGCC AAAGCTGGAC TGGAAGATGA ATGCAAAACC AAGTGGAGAT TCTGAATGAG CTCTATCAGC AGAATCTCGA G	12(18(24(291
(2) INFORM	ATION FOR SEQ ID NO:770:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 432 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:770:	
TTGGTGAGGG AGGGACACCT CTGATGATGG CCAGGTCCAG AACTCCTCAT	TTGTGAGACT GCCTGTTCTG GGACCAGCCC CTGGGCTCTT CCACCAAGAT TCCCCCCTCTG CCTCTCACAG AAGCCCCTGG CCCTGGACTG TCCTGGGGGC GTGGCTGGGGG AAGGGATGGC CAACAGCGGG AAGCAGTTTG CGCCTGGTGC TGAACCACGA GACAGATGGA GACGGGAGTC AGGGGACCCT TGACCTTTC CCAGACAGGC ACTCTCCAGG CCTAGGACAG ACAGGGCCCC CACCCCATGA CTTGGCCTGG AGGAACCTGG GGTGGGAAAC AAGTAGTCCC AGGCCAGAAC CACAGGTGGG GGACAGGGAC CTCGACAGAG CTGTGCCTGC AG	60 120 180 240 300 360 420 432
(2) INFORMA	ATION FOR SEQ ID NO:771:	
	SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:771:	
AACGGGCCT GGGAGGAGCT CCCCTCCCCT CTGTCCGTGG TGAGCCACAC	TGCCCCGTAC GAGCGGCGCG CCATGGAGTT ACTGAAGGTC TCCAAGGACA CAAATTATC AAGAAAAGGG TGGGGACGCA CATCCGCGCC AAGAGGAAGC GAGCAACGTA CTGGCCGCCA TGAGGAAAGC TGCTGCCAAG AAAGACTGAG GCCCTCTCCC TGAAATAAAG AACAGCTTGA CAGAAGCCCT GGCTCCCTG GTGGGTGTGG GTGTGCCGG GGCCCGCAGT CCCCTGTCTG GTGCCCGCTC CCTCTCCGGG TGCTGCCTGG TCGTGAATCA AAAGCCGTGG CCCGCCCACC CAGCAGGTGA GGAAGCCGT GTACTCGAG	60 120 180 240 300 360 399
(2) INFORMA	ATION FOR SEQ ID NO:772:	
(i)	SEQUENCE CHARACTERISTICS:	

- (A) LENGTH: 520 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:772:

60

120

AGTTGAATCT AAACCGGATA AACCATCGGG AAAGTCAGGC ATGGATGCTG CTTTGGATGA CTTAATAGAT ACTTTAGGAG GACCTGAAGA AACTGAAGAA GAAAATACAA CGTATACTGG ACCAGAAGTT TCAGATCCAA TGAGTTCCAC CTACATAGAG GAATTGGGTA AAAGAGAAGT CACAATTCCT CCAAAATATA GGGAACTATT GGCTAAAAAG GAAGGGATCA CAGGGCCTCC TGCAGACTCT TCGAAACCCA TAGGGCCAGA TGATGCTATA GACGCCTTGT CATCTGACTT CACCTGTGGG TCGCCTACAG CTGCTGGAAA GAAAACTGAA AAAGAGGAAT CTACAGAAGT TTTAAAAGCT CAGTCAGCAG GGACAGTCAA AAGTGGTGCT CCACCCCAAG AGAAGAAAAG AAAGGTGGAG AAGGATACAA TGAGTGATCA AGCACTCGAG	120 180 240 300 360 420 480 520
(2) INFORMATION FOR SEQ ID NO:773:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:773:	
GAATTCGGCC AAAGAGGCCT AGTTTATTGT TTGCATATAT TTTATAGTGT AGAGATTAGG CATTTTAATA AAATTTTAAA ATTTCCAGGA TCTTACAGAA TGCTTTTATG TTACAGCTTA CTCCTCGAG	60 120 129
(2) INFORMATION FOR SEQ ID NO:774:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:774:	
GAATTCGGCC TTCATGGCCT ACACAACGGA AAGCTGTTT TCTGATCGAG GCTCTTGAA GAGCATAATG CAGTCCAACA CATTAACCAA AGATGAGGAT GTGCAGCGG ACCTGGAGCA CAGCCTGCAG AAGCTGCAA AGATCACACA AGATCACACA AGATCACACA AGATCACACA AGATCACACA AGATCACACA AGATCACACA AGTCCACCA GACCTGCAG GCTCATCTCG GCCCTCAGC AATTCAAACC GAGATAAAGA AATCAAAAAG CTAAATGAAG AAATCGAACG CTTGAAGAAT AAAATAGCAG ATTCAAACAG GCTCGAG	60 120 180 240 300 337
(2) INFORMATION FOR SEQ ID NO:775:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(vi) SECTION OF DESCRIPTION, SEC. ID NO. 775	

GAATTCGGCC AAAGAGGCCT AGTGAGCGCG ACCATCATGT CCATGCTCGT GGTCTTTCTC

TTGCTGTGGG GTGTCACCTG GGGCCCAGTG ACAGAAGCAG CCATATTTTA TGAGACGCAG CCCAGCCTGT GGGCAGAGTC CGAATCACTG CTGAAACCCT TGGCCAATGT GACGCTGACG

TGCCAGGCCC GCCTGGAGAC TCCAGACTTC CAGCTGTTCA AGAATGGGGT GGCCCAGGAG CCTGTGCACC TTGACTCACC TGCCATCAAG CACCAG	240 276
(2) INFORMATION FOR SEQ ID NO:776:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 586 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:776:	
GAATTCGGCC AAAGAGGCCT ATGAAATAGA AGAAGGTAAA AATAAGGAAC AAGCAATAAA CAGTTCAGAG AACATAATG ACATCAATGA GGAACCAGGA ACAACTGAAG GTGAAGAAAT CACTGAGTCA AGTAGCACTG AAGAAATGGA GGTCAAGAGT GTGGTGGCTG ATACTGACCA AAAGGCTTTA GGAAGTGAAG TTCAGGATGC TTCTAAAGTC ACTACTCAGA TAGATAAAGA GAAAAAAGAA ATTCCAGTGT CAATTAAAAA AGAGCCTGAA GTTACTGTAG TTTCACAGCC CACTGAACCT CAGCCTGTTC TAATACCCAG TATTAATATC AACTCTGACA GTGGAGAAAA TAAAGAAGAA ATAGGTTCTT TATCAAAAAC TGAAACTATT CTGCCACCAG AATCTGAGAA TCCAAAGGAA AATGATAATG ATTCAGGCAC TGGTTCCACT GCTGATACTA GCAGTATTGA CTTGAATTTA TCCATCTCTA GCTTTCTAAG TAAAACTAAA GACAGTGGAT CGATATCTTT ACAAGAAACA AGAAGACAAA AGAAAACATT GAAGAAAACA CTCGAG (2) INFORMATION FOR SEQ ID NO:777: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 463 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	60 120 180 240 300 420 480 540 586
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:777:	٠
GAATTCGGCC TTCATGGCCT AGTTTATATA GAGTAGGTTT ACATAGAAAA GGAAAGTTCA CTGAGATTTC TAGGTACAAG ATCTANCAAC ATGCACAAAC CAATATTGTT TATGTATAAC AGCTTCAAAC AATTAGAAAT TGTAATAACC ATTATGAAAG TGATGAAAAT TGTATTGCTT AGTATTCTAC CAAAATTATT AAGTAATTTT TTTTTTTTT TTTNANACGG AGTCCCGCCT	60 120 180 240
GGGCCACAAG NGCNAAAATT TGTTTCNAAA AAAAAAAAGA AAAGAAAGAA AAAAAATTGA ACTCTCAATC CCTAGATGTA AAATCAACCT CGTGTTCTTG ATTTCACCAG TAATTCATAA	300 360
CCACAACTGT TGTGTCTTGA ACACTTACTA TGCTTGGCAT ACTTATAATT TTTATTTCAC	420

- (2) INFORMATION FOR SEQ ID NO:778:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 466 base pairs
 - (B) TYPE: nucleic acid

TTTATCCTCA AATTTAAGAT GAAGTTTCTC CTACTAACTC GAG

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:778:

WO 98/45437 PCT/US98/06956

${\tt GAATTCGGCC}$	TTCATGGCCT	AGCTGGGAGT	TACCTGNTAT	CCTGATGGTG	CCATGTGCTA	60
GCTGGGTGAC	AATAACCCAG	CCACCTAACA	TCTCAAAGAT	TGTTCCTTTT	TGTGTGAAAT	120
AGGGATAGAG	TTGTCTACTT	CCCAGAGCCA	GATAGAGAAC	TTAAGAGATG	AATCTGAAAA	180
TACAATAGCC	TAAATAAATT	CAAGGAAACA	CTATTATCTT	ACTGGATCTT	TCCAGCAACC	240
ATGTTACTTT	TGGCTGGATT	TTGTATTTTC	CAATTTGTGA	ATGACACAAC	AAAGAGCTAG	300
GTAGGTTAAG	TAAATGGTTT	CAGATAATAA	GCCCAGTTAG	CCCAGACGTT	TATTTTCCAT	360
TTGCATAGAA	AATGAATGTT	TTATGCATAC	ATTTGTTTGC	CCAGGGCTAG	GATATTACTT	420
GCATATGATG	TTCTTATATA	AAAAAATTA	AGAATACAAC	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:779:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 519 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:779:

GAATTCGGCC	TTCATGGCCT	AATTCCACAG	GGAAATGGGC	AGACTGAACC	AGTCCAGGTG	60
GTGAATTTTC	CAAGAACATA	GTTTAAGTTG	ATTAAAAATG	CTTTTAGAAT	GCAGGAGCCT	120
ACTTCTAGCT	GTATTTTTTG	TATGCTTAAA	AAAAAATAA	AATTCATAAC	CAAAGAGAAT	180
CCCACATTAG	CTTGTTAGTA	ATGCTCTGAC	CAAGCCGAGA	TGCCCATTCT	CTTAGTGATG	240
GCGGCGTTAG	GGTTTGAGAG	AAGGGAATTT	GGCTCAACTT	CAGTTGAGAG	GGTGCAGTCC	300
AGACAGCTTG	ACTGCTTTTA	AATGACCAAA	GATGACCTGT	GGTAAGCAAC	CTGGGCATCT	360
TAGGAAGCAG	TCCCTGGAGA	AGGCATGTTC	CCAGAAAGGT	CTCTGGAGGG	ACAAACTCAC	420
TCAGTAAAAC	ATAATGTATC	ATGAAGAAAA	CTGATTCTCT	ATGACATGAA	ATGAAAATTT	480
TAATGCATTG	TTATAATTAC	TAATGTACGC	AGACTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:780:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:780:

GAATTCGGCC	TTCATGGCCT	ACTAGACCCC	CGCCACAGCA	GCCTCTGAAG	TTGGACAGCA	60
AAACCATTGC	TTCACTACCC	ATCGGTGTCC	ATTTATAGAA	TAATGTGGGA	AGAAACAAAC	120
CCGTTTTATG	ATTTACTCAT	TATCGCCTTT	TGACAGCTGT	GCTGTAACAC	AAGTAGATGC	180
CTGAACTTGA	ATTAATCCAC	ACATCAGTAA	TGTATTCTAT	CTCTCTTTAC	ATTTTGGTCT	240
CTATACTACA	TTATTAATGG	GTTTTGTGTA	CTGTAAAGAA	TTTAGCTGTA	TCAAACTAGT	300
GCATGAATAG	ATTCTCTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:781:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 560 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:781:

GAATTCGGCC TTCATGGCCT	AAATGGGAAT	CATCATTGCA	TAACAAACCT	AAAGAGAAAA	60
TGAGAACATT TACGAAGAAG	AAACAGAGTT	ACTGTACCAA	GGGCAAAAAG	AAAAGAAGGG	120
GGAAAAAAA TAAGTCCATA	AAAGAAAAAC	AAAAGGAATC	CATGAGCCTG	GACGACAAGC	180
CGTGGGGGAT GTAAGAAGGT	TTGGAACCCA	AAAGGCAAGT	CTAATCAGCT	GGGGTAACAT	240
GGCGAGGCAG TTCCACATGC	TGAGACTTGT	GGCTACCACA	TTAAAAAAGA	CTGTGCATAT	300
TCTAAATGAC AGCAGTCCTG	CAGTGACGTG	GATATTCACT	CTAGAAGCTA	TGCAGGCAGG	360
CGTGGGAAAA GCGAAGAGAT	GTTGCACCAT	GCAGCTGCAA	TCTTTATGTC	TCTACTGGCA	420
CAACCGAAAA GAGTAATGTG	GAAATTATCC	AGAGAATTTA	GGTGAGAAAA	ACAGAAGCCA	480
TCAGATTTTC TCCTTTAAAT	CTTCAGAGGG	GTATACACTC	CCCTGGAAAA	CCAAGTTGCC	540
TCTCTGCTCA CATCCTCGAG					560

(2) INFORMATION FOR SEQ ID NO:782:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 633 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:

GAATTCGGCC	TTCATGGCCT	AGGGGAGTCC	TCATTCTGAC	CTCAAAGAAA	GGACTGTATT	60
GTCTGGCTCC	ATAATGCAGG	GGACACCAAG	AGCAACAACT	GAAAGCTTTG	AAGATGGCCT	120
TAAATATCCC	AAACAAATTA	AAAGGGAAAG	TCCTCCCATA	CGAGCATTTG	AAGGTGCCAT	180
TACCAAAGGA	AAACCATATG	ATGGCATCAC	CACCATCAAA	GAAATGGGGC	GTTCCATTCA	240
TGAGATTCCA	AGGCAAGATA	TTTTAACTCA	GGAAAGTCGG	AAAACTCCAG	AAGTGGTCCA	300
GAGCACACGG	CCGATAATTG	AGGGTTCCAT	TTCCCAGGGC	ACACCAATAA	AGTTTGACAA	360
CAACTCAGGT	CAATCTGCCA	TCAAACACAA	TGTCAAATCC	TTAATCACGG	GGCCTAGCAA	420
ACTATCCCGT	GGAATGCCTC	CGCTGGAAAT	TGTGCCAGAG	AACATAAAAG	TGGTAGAACG	480
GGGAAAATAT	${\tt GAGGATGTGA}$	AAGCAGGCGA	GACCGTGCGT	TCCCGGCACA	CGTCAGTGGT	540
AAGCTCTGGC	CCCTCCGTTC	TTAGGTCCAC	ACTGCATGAA	GCTCCCAAAG	CACAACTGAG	600
CCCTGGGATT	TATGATGACA	CCAGTGTCTC	GAG			633

(2) INFORMATION FOR SEQ ID NO:783:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 407 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:

AAATGACACT	GAATGACACG	TTAGCCAAAA	CTAACAGAGA	ATTATTAGAT	GTGAAGAAAA	60
			AAATAAAAGA			120
GAAACCTGGA	AAACACTCAG	AACCAAATAA	AAGCTGAGTA	CATCAGCCTG	GCAGAGCACG	180
			TGAGAAAGGT			240
			AGATTGTGAC			300
			AATGCATTAA			360
			AAGCAACAGA			407

(2) INFORMATION FOR SEQ ID NO:784:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:784:	
GCAGAAAAGT CAGAACAATT TGAGGAGCTT CAAAGCATCC TTAAGAAAGG GAAACTAACT TTTGAGAATA TTATGGAAAA ACTGCGAATC AAGTATTCCG AAATGTACAC CATAGTCCCT GCAGAGATTG AATCCCAGGT GGAAGAATGC AGAAAAGCTT TAGAAGACAT AGATGAGAAG ATTAAGCAATG AAGTCTTAAA AAGCTCACCA TCATATGCAA TGAGGAGAA AATAGAAGAA ATTAACAATG GGCTTCATAA TGTTGAAAAG ATGTTGCAGC AGAAAAGCAA AAATATTGAG AAAGCTCAAG AAATTCAAAA GAAAATGTGG GACTCACTCG AG (2) INFORMATION FOR SEQ ID NO:785:	60 120 180 240 300 342
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 456 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:785:	
GAGATAATGG ATGAAAGGAAT TCAGAGGAAA GTAGAGAAAC TAGAGCAACA ATGTCAGAAA GAAGCCAAGG AATTTGCCAA GAAGGTACAA GAGCTGCAGA AAAGCAATCA GGTTGCCTTC CAACATTTCC AAGAACTAGA TGAGCACATT AGCTATGTAG CAACTAAAGT CTGTCACCTT GAGACCACT TAGAGGGGG AAACACCACCC AGACAACGGG CAGTGGAGGC TCAGAAATTG ATGAAATACT TTAATGAGTT TCTAGATGGA GAATTGAAAT CTGATGTTT AACAAATTCT GAAAAGATAA AGGAAGCAGC AGACATCATT CAGAAGTTGC ACCTAATTGC CCAAGAGTTA CCTTTTGATA GATTTTCAGA AGTTAAATCC AAAATTGCAA GTAAATACCA TGATTTAGAA TGCCAGCNGA TTCAGGAGTA TACCAGTGCT CTCGAG	60 120 180 240 300 360 420 456
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 488 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:786:	
GAATTCGGCC TTCATGGCCT AGGGGTGAGA GTGTAGACGG CTTTCCCAGT TGTATCCAAG GCAGTCAGAC AGGGGGACACC TGCAGTGAGA GGCCCCCCCC TCAGCACAAGT GGCCAACAGC CCCCCAGC GCTGCAAGGT GGCCAACAGC CCCCCAGC TTCAGCACACC CCCCAACAATCC CCCCACAAGAA ACTCCTCAG TGGAGGGCGC TTTGGCCTCT TCAGGGTGTT CAGAAGCTGC CGGTTCACAC AGGACACTCT GCTGTTCACA GGGACACCAT CTGCTGTTTC CAGAAGCTGC CCGCTGCACC CCCGAGGAAC ACTTCTCACA GAAGCCACCT GTGGACGCT AAAGTACGAA TGCTCCACGA GGCCCGTGGT GACATCAGGA GGGGCAGAAT GCAGATCTAT GTGGGTGTG GCCTCGAG	60 120 180 240 300 360 420 480 488

- (2) INFORMATION FOR SEQ ID NO:787:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 452 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:787:

					TCCAAACAAC	60
			CCCCTTCTCT			120
			CGCAGCCACT			180
			TGGGCCTCCG			240
ATCCACCTCA	AGGCGCAGGA	AGGGGTCCAG	CAGGGCCCGG	AGCTTCCAGA	TGGTGGCACG	300
GCTCAGCAGG	GGCGGCACCA	GCCCCTCGAA	GGGCCTGGGG	TTCACCATGT	ACACGTAGGC	360
			GATCAGCAGC	CTGAGAATCT	CCAGCTGGAT	420
GTCCTCCATC	TGGTCCCTAG	ACCTGCCTCG	AG			452

- (2) INFORMATION FOR SEQ ID NO:788:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 388 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:788:

GAATTCGGCC TTCATG	GCCT ACAGGACAGA	GGCAAATAGT	AGACAAAGGT	GAAGCCAAAG	. 60
GCATAATTAA GGAAGG	AAGA ACGATATTAC	CAAAAGATGA	AACTGAAAAG	AAAGTCTTAA	120
CTGTGTCAAA TTCTCA					180
ACAGAATGTA TGAAAA	TCAA AGTCAGGTGG	TTCTTGTAGA	AAACCTTCAT	GTTAACAAAA	240
CAAATGAAAC AATCAG	ACAT GAAAATAAAC	CGTATGTTCC	TAGTTCAGCA	CAAATGACAA	300
GAAGGAAATT CCAAAA	GGCT AAGCCAAATT	TGGGAAGAGC	ACACAGTAAG	AAAGAGGAAC	360
CAGTTTTAGA AAAAGT	CACA AACTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:789:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 457 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:789:

GCCTGAAGAC	ATCAAAAAGG	AGGCAGCCCG	GGCTTCTAGG	AAGATCTGCT	TTGTGTGCAA	60
GAAAAAGGGA	GCTGCTATCA	ACTGCCAGAA	GGATCAGTGC	CTCAGAAACT	TCCATCTGCC	120
TTGTGGCCAA	${\tt GAAAGGGGTT}$	GCCTTTCACA	ATTTTTTGGA	GAGTACAAAT	CATTTTGTGA	180
CAAACATCGC	CCAACACAGA	ACATCCAACA	TGGGCATGTG	GGGGAGGAAA	GCTGCATCTT	240
ATGTTGTGAA	GACTTATCCC	AACAGAGTGT	TGAGAACATC	CAGAGCCCGT	GTTGTAGTCA	300
AGCCATCTAC	CACCGCAAGT	GCATACAGAA	ATATGCCCAC	ACATCAGCAA	AGCATTTCTT	360

CAAATGTCCA CAGTGTAACA ATCGAAAAGA GTTTCCTCAA GAAATGCTGA GAATGGGAAT TCATATTCCA GACAGAGATG CTGCCTGGGA ACTCGAG	42 45
(2) INFORMATION FOR SEQ ID NO:790:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 582 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:790:	
GAATTCGGCC TTCATGGCCT AGCGGCAGCG GCTCTTCAAA GCGGAGCCGG GAGTTTTTGC TACAGTTTTC GCCACCATGA GTCGCAGCTA TAATGATGAG CTGCAGTTCT TGGAGAAGAT CAATAAAAAC TGCTGGAGGA TCAAGAAGGG CTTCGTGCCC AACATGCAGG TTGAAGGTGT TTTCTATGTG AATGATGCTC TGGAGAAAATT GATGTTTGAG GAATTAAAGGA ATGCCTGTCC AGGTGGTGGT GTTGGTGGCT TCCTGCCAGC CATGAAACAG ATTGCCAATG TGGCAGCCCT GCCTGGAATT GTTCATCGAT CTATTGGGCT TCCTGATGTC CATTCAGGAT ATGGGTTTGC TATTGGGAAC ATGGCAGCCT TTGATATGAA TGACCCTGAA GCCATTATGA ATGAAGTGG TGTCGGGTTT GACATCAACT GTGGTGTCCC CTTGCTAAGA ACCAATTTAG ATGAAAGTGA TGTCCAGCCT GTGAAGGAC AACTTGCCCA AGCTATGTTT GACCACATTC CTGTTGGGGT GGGGTCAAAA GGTGTCATCC CAATGAATGA CAAAGACTCG AG	120 180 240 300 420 480 540
(2) INFORMATION FOR SEQ ID NO:791:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 468 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:791:	
GAATTCGGCC TTCATGGCCT ACATTTCTG AGAAAGGTTT GGATGACTGA AATATTTCCT CTACAGTCAA GGACTTTGCC ATGTGGTGCC TGAAACTGAG CTTTTTTGTG TGGGCTCCAG TTCTCACTGT TCTGCAATGC TCATGGCAGG TTGAAACTGGT ACCTAGCTTA TAAATTAAAG AGCTCTGAAC CTGTAGTCCA GTGGTGCTGC CCTGTTGTGC AAACTGCTC TTTTTCTCGT GTTTTTGTAA AGAGCTTCCA TCTGGGCTGG ACCCAGTTCT TGCACATACA AGACACCGCT GCAGTCAGCT AGGACCTTCC CGCCATGTAT TCTATTCTGT TGCACATACA AGACACCGCT AATGCCTAAT TGTATCTGT ATTTTTGGTT TAACACACAC TGCTCGAG	60 120 180 240 300 360 420
TANCACAC IGCICGAG	468

- (2) INFORMATION FOR SEQ ID NO:792:
 - (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 519 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:792:

GAATTCGGCC	TTCATGGCCT	ACGTGGCTAT	AACTGGAAAA	CTGGATCCGA	AATCGACCAG	60
TAAACTGGGT	AGCTCGGTCT	ACGCCCCCCC	CACCACCCTT	GCTAGCCAAT	AGCCTTCACA	120
ACTCTTCTGC	CACTCCCGCC	CATTCCAGTG	CTGTGCCGCT	GCTTTTTCTT	CCACTCGGAT	180
CTCTTGAGCG	CCCTTAGCCC.	GCTGTATACG	CGCCCCTCCT	CGGCTTCAGT	AGGCAAGAGG	240
GCCATCTGCC	CTTCCTTCCT	GAAGGTAGAG	GGGACAACAC	CAGCTACGAC	GGGGACTCCA	300
GAAGTCCATC	TCCCGAACAG	CAGCGGGGCG	AAAAGAAAGA	AAAAGGGTTT	CCGAAGACTC	360
CTACTCACAC	CCACGCTTTC	CCTTAACCCG	GAAGTGATTT	CCGCCCCTCC	TCTCCCTCTT	420
CGGTTGATAC	TGGAGGAGAA	GGACGGCCAG	GTCTGGCCCG	GCATGCCCTG	GGCTTCCGGT	480
GACCTCTGGC	CCTTTTCTGT	CGTCCACTCT	CCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:793:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 338 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:793:

			CCAATTCTCA			60
			TGTGCCTGCT			120
			TCAATGCCCC			180
TCACCAATAG	GAAGATCTCA	GTGCAGAGGC	TCGCGAGCTA	TAGAAGAATC	ACCAGCAGCA	240
AGTGTCCCAA	AGAAGCTGTG	ATCTTCAAGA	CCATTGTGGC	CAAGGAGATC	TGTGCTGACC	300
CCAAGCAGAA	GTGGGTTCAG	GATTCCATGA	ACCTCGAG			338

- (2) INFORMATION FOR SEQ ID NO:794:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 756 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:794:

A						
			TCTCAATCTC			60
CCTCGGCCTC	CCAAAGTGCT	GGGATTACAG	GCGTGAGCCA	CCGCACCCGG	CCCTAAACCC	120
TAGGTTTTGA	CTTCTGTAAG	AAGGAAAGAT	TTAAACAAAC	AAACAAACAT	TAAATTACAA	180
CCATAATAAA	САААААААСА	CTAAACTAAA	TTACAACCAT	AATAAAATCT	CCCAAAGTCC	240
GTAGGCACTG	ACATATTACA	GCCTTGCCAA	ATCAGAATAG	ATTTÇTCATG	TGTTGTCAAT	300
TTACCAGACA	CAAAGAGTAG	CTCAGATCTC	ATAGACTCTT	CAGATCTTGT	AGACTAATTT	360
CAAGTCTTTT	TAAAGTTTTG	AAAAACATGT	GCTATTTGGA	ATTACGTCAT	CCTCGAATAT	420
TAAACCTGAG	CTCAAAAACC	TATTGTTTGA	TATTGGAAAT	AGTTAACTCC	AGTTTTCTTC	480
TATTAAGATA	AAATTCTTTC	ATCATGTCTG	TGCCCTCTAA	AATAATACTC	CTATTGCTTT	540
GTCTTCCCCT	TCTCCCCTCC	TAGTCCTTCT	TTAGTCATTC	TATTTAGAAT	CAAGTCGCTC	600
ATGAGTTTAA	GAATTAGAGC	AGCAAGAAAT	TGGGCTAGAG	ATGTACAAAA	GCTTTGGACA	660
ATAGTAGTTT	TGCTTGTCCT	CATTCTTATT	AGAAGTGCTG	TTAATTTACT	GATAAATTCT	720
AGGACGGAAG	ACAAATCTTT	GCAACTGGTA	CTCGAG			756

- (2) INFORMATION FOR SEQ ID NO:795:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 648 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (11) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:795:

GAATTCGGCC	AAAGAGGCCT	ACCAGGAAGC	TCTCCTGCTT	GTCATGAAGT	GAGAACAATG	60
AAAAGTCATA	GCAGATACTC	AGTTTAACTC	TGTGTAGAAC	CTATTAGTGT	TTGAGCTGTT	120
ATTCAGATTT	GAATTCAGAC	TGTGTGTTGT	TTGCTTATGG	ACACTGCCTG	TCGTTCTGTC	180
ACTGTTAAAT	TAATGAGTCT	ATAAGGTTTT	TCTTCCAGAG	GCCATAGGTG	ACATCACTAA	240
	TAAATTGTAA					300
	CTGCTTTCTA					360
TGCTTTCACC	AAGGAAGTGC	GATCTGAGCA	GCCACAATCC	AGCCAAAAGA	GGATCGTAGA	420
TATTTGCTCT	GATCAACTAG	ATGAAAATAT	AGCAGAATGG	ATTTAGCCCA	CTGCTCTGTT	480
TTATCCAACT	GAGTCTCTGA	CCAGCAATTG	GTGCATAATT	ATTACAGCAA	AAGTTAAGAA	540
ATGAAACTGT	AGCAATTATG	TAAATGAATG	TGTTGGCCTC	TTAATACCTG	TTACTAGTGG	600
ACTTCCTGTG	AGGAAGTTAG	TTTTTTGTTT	TGATGAAATG	CTCTCGAG		648

- (2) INFORMATION FOR SEQ ID NO:796:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 610 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:796:

GAATTCGGCC AAAGAGGCCT	AAGAGGCTGG	CCCCAGTCCC	AAGGAACAAG	AGATGGTCAA	60
GTCGCTAGAG ACATATCAGG					120
GAGGTTGGAC ACTATACATA					180
TGCTGTGGAA CGGGTATGGA					240
CCATTTCAGC ACCCTGCCAC					300
ATACCTATCT CCCTCCTCCC	ATCTCCTAGG	GGACTGGCGC	CAAATGGTCT	CTCCCTGCCA	360
ATTTTGGTAT CTTCTCTGGC					420
ACAAATCCCC TTCCTCTTTC	TCAAAGCACA	GTAATGTGGC	ACTGAGCCCT	ACCCAGCACC	480
TCAGTGAAGG GGGCCTGCTT	GCTCTTTATT	TTGGTCCCGG	ATCCTGGGGT	GGGGCAGAAA	540
TATTTCTGG GCTGGGGTAG	GAGGAAGGTT	GTTGCAGCCA	TCTACTGCTG	CTGTACCCTA	600
GAAGCTCGAG					610

- (2) INFORMATION FOR SEQ ID NO:797:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:797:

GAATTCGGCC	AAAGAGGCCT	AGCCACTATC	CTGGTTACTT	GTGGATTCAC	CAAGCAGTCC	60
AGCAAGTCAT	CCGTAGAAAT	GAATGTTTGA	GGAGTCGTAG	TAGTATTTGA	GGCAATCTGT	120
TCCTCAATTG	CATTTTCACT	GTTGCTCATT	ATTTGTTGTC	TCTTGGCACA	ATGCAATTTT	180
CCAAAGTGTT	CTCCATCCTT	GTCCACAAAG	ጥርጥምጥርርርልጥ	CACTTCCAAA	TATGCCTCCT	240

CTTTCTGAAG GCGGTTCTTC GGACCTCTGT GCTACAGGGA CTCGAG	286
(2) INFORMATION FOR SEQ ID NO:798:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:798:	
GAATTCGGCC AAAGAGGCCT AGTTTTTAT TGGTTTGGAG ACTAGAGCCA ATAGTATAAT GTTCTCAAAG GAAACAGACT TGAGTTGTTG GATTAGAGGA ACTAACCCAA CTTATATGAT TTTTTTTTT TTTTTGTCGT GTAGTTATGG CACTAGTCTC GAG	60 120 163
(2) INFORMATION FOR SEQ ID NO:799:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 443 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:799:	
GAATTCGGCC TTCATGGCCT AGAGGGAATG CGGAGAGGGG TGGAGAAATT CCATCTTTGT TAGGGCAGCA GTCAAGGATG AGTGAGTTAG CCTCTTAAGG AAGAGCCTAA GCTGTTAGAA TAAAGAGGTT TACAACATCA GCGGCTTAAA TCAAATAGAA GTGTTTCT CTTTCACATG ACAGAGTAGA TGTGGCCTGG CATCTAGAAA GCATATTTGT CTCTGCTCCA CTGTGTCTTC CAGGGACCCA TTCTTCTCTT GTCTTCATGC TCCATCACTT CCTAGGGTGT TGTCTACACC TGCATAGCCA TAGCTAATTT TCCATTCTCA GCACCAACCA GGGGAAGAGG AGGAAAGGTA GCCTCCTTTT CATGATAGGT GTGAAGTTAT GCAGGACACT CTCAGGGTGA ATGGACCACA GTGTGGCTCC TCCTGGGCTC GAG	60 120 180 240 300 360 420 443
(2) INFORMATION FOR SEQ ID NO:800:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:800:	
GCATGTGCAG CGGCAAAGAG AACCCGGACA GTGATGCTGA CTTGGATGTG GATGGGGATG ACACTCTGGA GTATGGGAAG CCACAATACA CAGAGGCTGA TGTCATCCCC TGCACAGGCG AGGAGCCTGG TGAAGCCAAG GAGAGAGAGG CACTTCGGGG CGCAGTCCTA AATGGCGGCC CTCCCAGCAC GCGCATCACA CCTGAGTTCT CTAAATGGGC CAGTGATGAG ATGCCATCCA CCAGCAATGG TGAAAGCAGC AAGCAGGAGG CCATGCAGAA GACCTGCAAG AACGGTCGAC TCGAG	60 120 180 240 300 305
(2) INFORMATION FOR SEC ID NO.801.	

(A) LENGTH: 464 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:801:	
SAATTCGGCC AAAGAGGCCT AAACACTCAA ATTTTACATT TTGAGCAGTA TTTACGCCTG	60
AATTAATTCA CAAGTTTCAA GGTCACTAAC TTTGGTTATA TTATATTATT ATTTTCCAAT	120
TTAGCCACCT CTTTATTTGT ATAATAGAGC ATACAGCAGC ACATAAAACG CAAAACTCTA	
CARACTER STATE OF A CARACTER CONTROL OF A CA	180
GGACATAAAA AGTGGCATTC GGACGATGTT GCTCTGAAAT TTATGCATTA ATTAAACCGG	240
PATATATGTA TGCATTAATT AAACCAATAT TTATGAAGTT CCTACTGTGT TACAGACGTG	300
GATCCAGGCA CTGAGGATGC AGCAGGCCAT CCAAATATAA AGTTACTŢCC TTAGGAAĢCT	360
CCATTCTAA TGGGAGAGTG TTGTTAAAGA GATATATAAT AATATGTAAA ATGAATCCAT	420
ATGGTGAGT ATTATGAAGA ATAAAATTGC CAGGTTTTCT CGAG	464
(2) INFORMATION FOR SEQ ID NO:802;	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 650 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:802:	
SAATTCGGCC AAAGAGGCCT AATCTTCTGC CTGTTCTGAA AAAGCTTTGC TTCTTGTGAT	60
TTGTATCACG AGGGGGAAAG GTCCTTACTG TTTTTCCAGA CCTACAGTTG TGATAGAGGC	120
CCTCCCAGC CCCGCCACA GACCCCAACA GTGCCCTCTC TCACAAATGG ATTCTGGGGC	
	180
TTGGTCTTTA TTTTTGTTTT TGTTGGGGGC AGCATATGGA ACCCAAAAAT AGTATCATAG	240
CTAAATTTG GAGCTTTGTG CCAGCCTTGT CTGTAGGATG ACCCGTGTGG GTCTCACCTG	300
FTGACTGGGA GTCCACAGGG GTCAGTTAGT AGCAGGGAGC TGCAGGGCGC CTGTCAGCAG	360
AGACCGTCTC ATTCCCCAAA CCCAGGAGCC AGAGGAACTG ACGCCCGGAT AAATGCCCAA	420
SCCGCCCGG GTGGGATTAG TCGTCTACCT TCCCAGAAAT ACACCCTCCC ATCCTGTGAC	480
TTGGATACAG TTTACTGATG AAATTAGGGA ACCTCCTGCG CCTTACCAAG AAGCTGTGGC	540
GGAACTTAG TCAATGAAAA ATGATTTGTA AACTCTTTGG AGCTGGCTTT GAAAGAATGT	600
TTAAAATGAT AGCTGATACT GCCAGACAAC AGAACAGGCC GGCCCTCGAG	650
(2) INFORMATION FOR SEQ ID NO:803:	
27 INFORMATION FOR SEQ ID NO. 803:	
(1) CECURATE CUARACTER CONTRACT	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 101 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
; ; · · · · · · · · · · · · · · · · · ·	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:803:	
(MI) DEGODACE DESCRIPTION: SEQ ID NO:003:	
33.7mmcacaca	
FAATTCGGCC AAAGAGGCCT AAGAGAACAG GAGCATTACA GTAAAATTCC TAAGTAGCCA	60

(i) SEQUENCE CHARACTERISTICS:

ACTGATTTGC AGTGCCAGAA ATGAATACCG ATCCACTCGA G

(2) INFORMATION FOR SEQ ID NO:804:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 723 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:804:

GAATTCGGCC	AAAGAGGCCT	AGCTCTCTGT	ACCCAAGGAA	AGTGCAGCTG	AGACTCAGAC	60
AAGATTACAA	TGAACCAACT	CAGCTTCCTG	CTGTTTCTCA	TAGCGACCAC	CAGAGGATGG	120
AGTACAGATG	AGGCTAATAC	TTACTTCAAG	GAATGGACCT	GTTCTTCGTC	TCCATCTCTG	180
CCCAGAAGCT	GCAAGGAAAT	CAAAGACGAA	TGTCCTAGTG	CATTTGATGG	CCTGTATTTT	240
CTCCGCACTG	AGAATGGTGT	TATCTACCAG	ACCTTCTGTG	ACATGACCTC	TGGGGGTGGC	300
GGCTGGACCC	TGGTGGCCAG	CGTGCATGAG	AATGACATGC	GTGGGAAGTG	CACGGTGGGC	360
GATCGCTGGT	CCAGTCAGCA	GGGCAGCAAA	GCAGACTACC	CAGAGGGGGA	CGGCAACTGG	420
GCCAACTACA	ACACCTTTGG	ATCTGCAGAG	GCGGCCACGA	GCGATGACTA	CAAGAACCCT	480
GGCTACTACG	ACATCCAGGC	CAAGGACCTG	GGCATCTGGC	ACGTGCCCAA	TAAGTCCCCC	540
ATGCAGCACT	GGAGAAACAG	CTCCCTGCTG	AGGTACCGCA	CGGACACTGG	CTTCCTCCAG	600
ACACTGGGAC	ATAATCTGTT	TCGCATCTAC	CAGAAATATC	CAGTGAAATA	TGGAGAAGGA	660
AAGTGTTGGA	CTGACAACGG	CCCGGTGATC	CCTGTGGTCT	ATGATTTTGG	CGACATCCTC	720
GAG						723

- (2) INFORMATION FOR SEQ ID NO:805:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 406 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:805:

GAATTCGGCC	TTCATGGCCT	ACGGCCAAAG	AGGAGGAGAT	GGCGCCAGTC	AGGGAGCGGC	60
CGTGGCCCAG	ACAGTGAGGA	AGCGCGAAGG	CGGAGCAACC	GAGGAATCCT	CCGGAGAAGA	120
ATCAGAGCCG	TCGCTACCGC	CACTACCGCC	ACCACCATGG	AAGGAGCAAA	GCCGACATTG	180
CAGCTCGTGT	ACCAGGCAGT	GCAGGCGCTT	ACCACGACCC	AGATCCCAGC	GGAAAGGAGC	240
GCGCCTCTTT	TTGGCTTGGG	GAGCTGCAGC	GTTCGGTTCA	TGCATGGGAG	ATCTCAGACC	300
AGTTGTTACA	GATCCGGCAG	GATGTGGAGT	CATGCTATTT	TGCTGCACAG	ACCATGAAAA	360
TGAAGATTCA	GACCTCATTT	TATGAGCTCC	CCACAGTACT	CTCGAG		406

- (2) INFORMATION FOR SEQ ID NO:806:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 329 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:806:

GAATTCGGCC	TTCATGGCCT	ACGCCCGGGT	TGGAAGTGTG	CAGTCAATGA	GCTCCCGCTC	60
CTCCTGGATC	CGTCTGTAGG	TCTCCCCGGT	GTGCATGAGC	AGCTCACTCA	CTGGCTTCTT	120
TAGGTGTTCG	CTGAGGGCTT	CCTGCTGCTT	CTTCCGCAGG	GCTGTGTTAC	GCTGCCAGTT	180

240 300

TTTCAGAAAG TTGTGCTGAG GAGGTGGGGC CCAGGGAGGT CTCTTCTCTT	240 300 329
(2) INFORMATION FOR SEQ ID NO:807:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:807:	
GAATTCGGCC TTCATGGCCT AAGGTACTTT AATCAGTCTA AATACTTGAA CATTTTTATT TCAGTGGTAA AAAATAGACT GAGGCAGAGT GAAGTTATAA ATTAGAATCT AAAAATTTAC CCTTCAACAT TAATATTTTT TAGTGCTCTA ATATAAAACA CAGAAAACCT ATCTCAAATA TAAAAGATGA ATATAAAATT ATTAATTAAA CAACTGGCGC TCGAG	60 120 180 225
(2) INFORMATION FOR SEQ ID NO:808:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:808:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:808: GAATTCGGCC TTCATGGCCT AACTTGCTCT TCTGTTTCTA GTTTTATAAA GTGAAAGCTG CAATCATTGA TTAGAACAG TTCTACGCTA AAGTCATAAT GACATTTTAT GTAATTTCTT TTTTCTTTTT TTTGAGACAG AGTCTCGCTC TGTTGCTCAG GCTGGAGTGC AGTGGAGTGA TCTCAGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC CCCCACCAAC TCGAG	60 120 180 240 275
GAATTCGGCC TTCATGGCCT AACTTGCTCT TCTGTTTCTA GTTTTATAAA GTGAAAGCTG CAATCATTGA TTAGAGACAG TTCTACGCTA AAGTCATAAT GACATTTTAT GTAATTCTT TTTTCTTTTT TTTGAGACAG AGTCTCGCTC TGTTGCTCAG GCTGGAGTGC AGTGGAGTGA TCTCAGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC	120 180 240
GAATTCGGCC TTCATGGCCT AACTTGCTCT TCTGTTTCTA GTTTTATAAA GTGAAAGCTG CAATCATTGA TTAGAGACAG TTCTACGCTA AAGTCATAAT GACATTTTAT GTAATTTCTT TTTTCTTTTT TTTGAGACAG AGTCTCGCTC TGTTGCTCAG GCTGGAGTGC AGTGGAGTGA TCTCAGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC CCCCACCAAC TCGAG	120 180 240
GAATTCGGCC TTCATGGCCT AACTTGCTCT TCTGTTTCTA GTTTTATAAA GTGAAAGCTG CAATCATTGA TTAGAGACAG TTCTACGCTA AAGTCATAAT GACATTTTAT GTAATTCTT TTTTCTTTTT TTTGAGACAG AGTCTCGCTC TGTTGCTCAG GCTGGAGTGC AGTGGAGTGA TCTCAGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC CCCCACCAAC TCGAG (2) INFORMATION FOR SEQ ID NO:809: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	120 180 240
GAATTCGGCC TTCATGGCCT AACTTGCTCT TCTGTTTCTA GTTTTATAAA GTGAAAGCTG CAATCATTGA TTAGAGACAG TTCTACGCTA AAGTCATAAT GACATTTTAT GTAATTCTT TTTTCTTTTT TTTGAGACAG AGTCTCGCTC TGTTGCTCAG GCTGGAGTGC AGTGGAGTGA TCTCAGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC CCCCACCAAC TCGAG (2) INFORMATION FOR SEQ ID NO:809: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	120 180 240
GAATTCGGCC TTCATGGCCT AACTTGCTCT TCTGTTTCTA GTTTTATAAA GTGAAAGCTG CAATCATTGA TTAGAGACAG TTCTACGCTA AAGTCATAAT GACATTTTAT GTAATTCTT TTTTCTTTTT TTTGAGACAG AGTCTCGCTC TGTTGCTCAG GCTGGAGTGC AGTGGAGTGA TCTCAGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC CCCCACCAAC TCGAG (2) INFORMATION FOR SEQ ID NO:809: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	120 180 240

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 283 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:810:	
GAATTCGGCC TTCATGGCCT AGATTGAATT CTAGACCTGC CGACGCGGGG AGAGACAAAA AAGAGAAAAGT CTTTGAAAAG CACAAGGAGA AGAAGGATAA AGAGTCCACA GAAAAGTACA AGGACAGGAA GGACAGAGCC TCAGTGGACT CCACGCAAGA TAAGAAAAAAT AAACAGAAGC TCCCCGAGAA GGCTGAAAAG AAGCACGCTG CCGAAGACAA GGCTAAAAGC AAACACAAAG AGAAGTCGGA CAAAGAACAT TCCAAGGAGA GGAAGTCCTC GAG	60 120 180 240 283
(2) INFORMATION FOR SEQ ID NO:811:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:811:	
GAATTCGGCC AAAGAGGCCT AGGCTTCCAC CCAGGAAATG ATCCAGAGCC TCTTTTATGT TATGTTTTTT GTTTGTTCCT TTCAAGACAA TCGATCAAGC CAGAGGCATT CCCCACCCTT CAGCAAGACA CTTCCCAGTA AGCCCAGCTG GCCTTCAGAG AAAGCAAGGC TCACCTCCAC CCTGCCGGCC CTGACTGCTT TGCAGAAACC TCAAGTCCCA CCCAAACCCA AAGGCCTCCT TGAGGATGAG GCTGATTATG TGGTCCCCGT GGAAGATAAT GATGAAAACT ATATTCATCC CACAGAAAAAG CTCGAG	60 120 180 240 300 316
(2) INFORMATION FOR SEQ ID NO:812:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:812:	
GGGATGCATA GATTTAGTTC TGCCTCACAG GCAGGTAGCC TGAGCTCCTA GGGGGAACTG TTTTTGCTAA GTAGGGAATG AAAAGCATGT TTATTTAAGC ACAAAATTAA ATCTCTCCTA TTTTTATATG ATTTCCCGTT GTTTTCTTCC CTGTAGGGAA ATCTGCTGTG ATAGAGAACT GCGTAACAGG CCTTTTCTGT GAGCGCTCAC TCATACATTA TGCACGACGT GGCTAAGATC TTTGATGGCA CTCGAG	60 120 180 240 256
(2) INFORMATION FOR SEQ ID NO:813:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:813:

GCAAGCGGCG	CATGCAGGAG	GAGAAGCAGA	AGTCTGTCAA	CGTCAAGAAG	ACCATCCTGG	60
AGATGCGCTA	CGGGGCTGAT	GTGGATGCCG	GCTCCATTGT	GCACGCCGCC	CAGAAGCTGG	120
GCGAGCCTCC	CGTGCTGCCC	GTATCTCGCA	TGGCCTCCAT	CCCCTCCATG	ATCGGGGAGA	180
AGCTGCCCAC	CGCCAAGGGG	TTGGAGGCCG	GGCTGGACAC	ACCCAAGGTA	GCCACCAAAG	240
GCAACTATAT	CGAGGTGCGC	ACAGGCGCCG	GCGGGGACGG	TCTGGCTCGG	CCCGAGGATG	300
ACCTCCCGGA	CCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:814:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:814:

GAATTCGGCC	TTCATGGCCT	ACGAACTCCT	GACCTCAAGT	GATCGGCCTG	CCTCAGCCTC	60
CTAAAGTGCT	GGGATAGCCA	CTGTGCCCAG	CCTAGCCCTT	CTTCAAATGT	TTGGTAAAAT	120
TCAGCATTGA	AGCCATCAGG	TCTTGGGCTT	TTTGCTGGGA	GATTTTTTAT	TATGGCATCA	180
ATCTCATTAC	TTGTTACTGG	CCTGTTTAGG	TTTTCAGTTT	TTTCATGGTT	CAATCTTGGT	240
AGGTTGTTTG	TGTCTAGGAA	TGTATCTGTT	TCTTCTAGGT	TTTCCAGTTT	CTTGGCGTAT	300
AGTTACTCAT	AGTAGCCACT	AATTATCCTT	TGGATTTCTG	CGGTATTGGT	TGTAGTGTCC	360
CCATCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:815:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 382 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:815:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCAAGCCTAT	CTTTTAGTCT	60
TCCTAGAAGC	ACCGTGTTCT	GTGGAACTCA	GCATCAGCAG	CTTTGCTGAG	GACTCCCCCA	120
TCTTCCTTTC	CTTCCCCGGA	AAGCACAGAC	CTAAGTGAGT	CTTCACTGGA	TCCCAGCTAA	180
CAGCTTCTGC	CCATTCCTAT	CTTTCCACAG	AGCCAGTGGC	AGCCCCAGCT	GCAGCAGCTA	240
CGTGACATGG	GCATCCAGGA	CGATGAGCTG	AGCCTGCGGG	CCCTGCAGGC	CACCGGTGGG	300
GACATCCAAG	CAGCCCTGGA	GCTCATCTTT	GCTGGAGGAG	CCCCATGAAC	TCCCTGCTTC	360
CCCTGAACCC	CCAGCACTCG	AG				382

- (2) INFORMATION FOR SEQ ID NO:816:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 274 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D)	TOPOLOGY:	linear
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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:816:

GCCACGGTGC TCATTCAGAC	TACCCGTGTG	CCCAAGCAGG	TGGCAGTACC	CGCGACAGAC	60
ACCACTGACA AGATGCAGAC	CAGCCTGGAT	GAAGTCATGA	AGACCACCAA	GATCATCATT	120
GGCTGCTTTG TGGCAGTGAC	TCTGCTAGCT	GCCGCCATGT	TGATTGTCTT	CTATAAACTT	180
CGTAAGCGGC ACCAGCAGCG	GAGTACAGTC	ACAGCCGCCC	GGACTGTTGA	GATAATCCAG	240
GTGGACGAAG ACATCCCAGC	TGCAACATCT	CGAG			274

- (2) INFORMATION FOR SEQ ID NO:817:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 356 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:817:

GAATTCGGCC	TTCATGGCCT	ACAAAAATAC	ACCTGTGGTC	CCAGCTGCTC	GGGAGGCTGA	60
NTTACGAGAG	TCCCTTGAAC	CTGGGAGGCG	GAGGTTGCAG	TGAGCTGAAA	TCATGCCACT	120
GCACTCCAGC	CTGGGCAACA	GAGCGAGACT	CTGTTNAAAA	TAAAAAAAAT	AGCGAGAGAT	180
CGAGAGAGAG	TGCACGTGAG	AAGACTAGTA	GTTGCTATGG	ACTGGGGGAG	AAGGAÁCGGG	240
TTACAGGGTT	TCTTTTGGGG	ATAACGAAAA	TGTTCTAAAA	CTGGACTGTG	GTGATAACTG	300
CACAACTCTG	TGAATGTACT	AAAAACTACT	GAACTGGCCG	GGCGCGGCAG	CTCGAG	356

- (2) INFORMATION FOR SEQ ID NO:818:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 184 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:818:

GAATTCGGCC TT	CATCCCCT ACC	יאכככיים ייראא	ርጥጥ አጥጥ ጥ አለጥጥ	ርጥአአአ አአጥአርጥ	06 TATA
OWNITCOOCC II	Chiodeel Moor	TOOOLO ICHA	CITALI IMMII.	CIAMA AMIMOI	nini oo
manmadadam ad	mamaamaa maar	DODO ON MARIO		*****************************	TAAA 120
TCATAGAGAT AC	IAICAICC ICA.	ITICATA TATT	CAAAAA ATICA	AAGAA GIIAAG	IAAA IZU
mmaaaaaaaa					mamm 100
TTGCCAAAAG TC	ACCCAGAT AATA	AAGTAGA AAAG	ATGGTA ATGAA	ATCCA GGTTGG	CCTT 180
CGAG					184

- (2) INFORMATION FOR SEQ ID NO:819:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 349 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:819:

GAATTCGGCC TTCATGGCCT	ACAACAACAA	СААСААААА	ACATCATCCG	GGGAAGCTTT	60		
TCAATATCCT GACGTTGGGT	CTCTCCAGTG	TAGATGGAAA	TATGGAATTG	GGAATAGACA	120		
TCGATATTTT TGGAGGTCCC	CAGGGGTTAC	CAATGTGCAG	ACAGGTTTGG	GAACCACTGC	180		
ATTAGGCATT TTACATTTAT	TTAGGGCTTT	CACTGGATTT	GTCACCCCAT	ACTTTCATAA	240		
TCCATTTTT CTGATTTTTT				TGGGGTTTTT	300		
TTTTTTGTCC TCCCACCGCT	CGCCCCCATC	CAGTGTGGAC	GTACTCGAG		349		
(2) INFORMATION FOR SEQ ID NO:820:							
(i) SEQUENCE CH	ARACTERISTI	CS:					
(A) LENG'	TH: 167 base	e pairs					

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:820:

GAATTCGGCC	TTCATGGCCT	ACTCTTTCCT	TGAAGAATTT	GTTGAAGACT	TCAGAAGTGA	60
TGCTGGCTGC	TTTCTTCATT	AGGTTGAGCT	CCCCATCCTC	CTTTACAGCG	ATGGTATATG	120
CCACAACTGC	ACTGATATCT	ATTTTGTCAA	AGCCTTCAGG	TCTCGAG		167

- (2) INFORMATION FOR SEQ ID NO:821:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 733 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:821:

GAATTCGGCC	AAAGAGGCCT	AGCGAAATAA	AACAAGGGAG	TCAGCAAAAC	CAGAAATTTC	60
AGCAATGTCA	GCTCATGACA	AGGCTGCATT	ATCAGAAGAG	GAACTGGAGA	GGAAGTCGAA	120
ATCTATCATT	GATGAATTTC	TACACATTAA	TGATTTTAAG	GAAGCCATGC	AGTGTGTGGA	180
AGAGCTGAAT	GCCCAGGGCC	TACTACATGT	TTTTGTGAGA	GTGGGAGTGG	AGTCCACCCT	240
GGAAAGGAGC	CAGATCACCA	GGGATCACAT	GGGCCAACTA	CTCTATCAGC	TGGTACAGTC	300
AGAAAAACTC	AGCAAACAGG	ACTTTTTCAA	AGGTTTTTCA	GAAACTTTGG	AATTGGCAGA	360
TGACATGGCC	ATTGATATTC	CCCATATTTG	GTTGTACCTT	GCTGAACTGG	TGACCCCCAT	420
GTTAAAAGAA	GGTGGAATCT	CCATGAGAGA	ACTTACCATA	GAATTTAGCA	AACCTTTACT	480
TCCTGTTGGA	AGAGCTGGGG	TCTTGCTATC	TGAAATATTG	CACCTACTAT	GCAAACAAAT	540
GAGCCATAAG	AAAGTGGGAG	CCTTATGGAG	GGAGGCTGAC	CTCAGCTGGA	AGGACTTTTT	600
ACCAGAAGGA	GAAGATGTAC	ATAATTTTCT	TTTGGAGCAG	AAGTTGGACT	TCATAGAGTC	660
TGACAGTCCC	TGTTCCTCTG	AAGCACTTTC	AAAGAAAGAA	CTGTCTGCCG	AAGAGCTGTA	720
TAAGCGACTC						733

- (2) INFORMATION FOR SEQ ID NO:822:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 512 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:822:

TGCCAGATAG	TTCTGCAGAA	GAAATCACTG	TTTGTCCTGA	GACACAGGTA	AGTTCCTCTG	60
AAACTTTTGA	CCTTGAAAGA	GAAGTCTCTC	CAGGTAGCAG	AGATATCTTG	GATGGAGTCA	120
GAATAATAAT	GGCAGATAAG	GAGGTTGGTA	ACAAGGAAGA	TGCTGAGAAG	GAAGTAGCTA	180
TTTCTACCTT	CTCATCCAGT	AACCAGGTAT	CCTGCCCGCT	ATGTGACCAA	TGCTTTCCAC	240
CCACAAAGAT	TGAACGACAT	GCCATGTACT	GCAATGGTCT	GATGGAGGAA	GATACAGTAT	300
TGACTCGGAG	ACAAAAAGAG	GCCAAGACCA	AGAGTGACAG	TGGGACAGCT	GCCCAGACTT	360
CTCTAGACAT	TGACAAGAAT	GAGAAGTGTT	ACCTCTGTAA	ATCCCTGGTC	CCATTTAGAG	420
AGTATCAGTG	TCATGTGGAC	TCCTGTCTCC	AGCTTGCAAA	GGCTGACCAA	GGAGATGGAC	480
CTGAAGGGAG	TGGAAGAGCA	CGTTCGCTCG	AG			512

- (2) INFORMATION FOR SEQ ID NO:823:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 423 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:823:

GAATTCGGGC	CTTCATGGCC	TACTCTCATC	TGTATCTGTT	TCCTCTAACT	TTACTGAAAA	60
GATAGAATTC	ATTAAGCATG	AATTCTACCA	TCTTCTCCCT	ACTACAGCTC	TGTCAAAAAG	120
ATGTTGCTCT	CTGAGCCCAA	CTCTCCCTCA	GTCCCCAGGA	TTCTGTCCCT	GTCCACCTTT	180
AATCTTTTCC	TTTCCTGATT	TTATGTTATA	AGTTATTTAG	ATTTCGATGA	GAGATAATCG	240
TACCTAGAGT	ATGGGAGAAC	TATTTAAGGT	TTACAGGTTG	GGTGGAACCC	TTGTATATAC	300
TAGATGGTAC	TGTGAGGGCT	TGCCACACTG	TCAGCCTTCA	TCTGAACAGA	GCAGAAAGTG	360
TTTCTGCATG	TTCACCAAGC	CCTGCTGGAC	TGTATCACTT	TTCTCTGTGG	GCCAAAACTC	420
GAG						423

- (2) INFORMATION FOR SEQ ID NO:824:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:824:

GAATTCGGCÇ	TTCATGGCCT	AGCGGCCTCA	GATGAATGCG	GCTGTTAAGA	CCTGCAATAA	60
TCCAGAATGG	CTACTCTGAT	CTATGTTGAT	AAGGAAAATG	GAGAACCAGG	CACCCGTGTG	120
GTTGCTAAGG	ATGGGCTGAA	GCTGGGGTCT	GGACCTTCAA	TCAAAGCCTT	AGATGGGAGA	180
TCTCAAGTTT	CAACACCACG	TTTTGGCAAA	ACGTTCGATG	CCCCACCAGC	CTTACCTAAA	240
GCTACTAGAA	AGGCTTTGGG	AACTGTCAAC	AGAGCTACAG	AAAAGTCTGT	AAAGACCAAG	300
GGACCCCTCA	ΑΣΚΑΔΑΔΑΚΑ	CCCAACCTTT	TCTCCCAAAA	AGATGATCTC	CAC	353

- (2) INFORMATION FOR SEQ ID NO:825:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 506 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:825:

GAATTCGGCC AAAGAGGG	CCT AGGAGTAAGG	ATGCAGAAAT	GATTGCAGCA	TATTTCATTC	60
TCTACGCAAG GATGTTC	CTC GGAAATGGAG	GCGACATTGC	TGCCTGCTTT	TTTGAGGGAA	120
TTGATGATGT TCACTGGA	AAG GAAAATGGGA	CATTAGTTCA	AGTAGCAACT	ATATCAGGAA	180
ACATGTTCAA CCAAATGO	CA AAGTGGGTGA	AACAGGACAA	TGAAACAGGA	ATTTATTATG	240
AGACATGGAA TGTAAAA	ecc agcccagaaa	AGGGGGCAGA	GACATGGTTT	GATTCCTACG	300
ACTGTTCCAA ATTTGTGT	TTA AGGACCTTTA	ACAAGTTGGC	TGAATTTGGA	GCAGAGTTCA	360
AGAACATAGA AACCAACT	TAT ACAAGAATAT	TTCTTTACAG	TGGAGAACCT	ACTTATCTGG	420
GAAATGAAAC ATCTGTTT	TTT GGGCCAACAG	GAAACAAGAC	TCTTGGTTTA	GCCATAAAAA	480
GATTTTATTA CCCCTTC	AAC CTCGAG				506

- (2) INFORMATION FOR SEQ ID NO:826:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 337 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:826:

GATGGAGCAG	TTCCAGAAGG	AGAAGGAGGA	ACTGGACAGG	GGCTGCCGCG	AGTGCAAGCG	60
CAAGGTGGCC	GAGTGCCAGA	GGAAACTGAA	GGAGCTGGAG	GTGGCCGAGG	GCGGCAAGGC	120
AGAGCTGGAG	CGCCTGCAGG	CCGAGGCACA	GCAGCTGCGC	AAGGAGGAGC	GGAGCTGGGA	180
GCAGAAGCTG	GAGGAGATGC	GCAAGAAGGA	GAAGAGCATG	CCCTGGAACG	TGGACACGCT	240
CAGCAAAGAC	GGCTTCAGCA	AGAGCATGGT	AAATACCAAG	CCCGAGAAGA	CGGAGGAGGA	300
CTCAGAGGAG	GTGAGGGAGC	AGAAACACAA	GCTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:827:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 216 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:827:

GAATTCGGCC	AAAGAGGCCT	ACAGGTACAG	AATCATATGA	ATGTTTCTTT	CTTTCTTTCT	60
TTTCTTTCCT	TCTTTCCTTC	TTTCTTTCTT	TCTTTTTTTG	AGACAGAGTC	TTGTTCTGTT	120
GCCAGACTGG	AGTGCAGTGA	CTCAATCTCA	GCTCACTGCA	ACCTCCACCT	CCCAGGTTCA	180
AGCAATTGTC	CTCCCTCAGC	GAGGACCTGC	CTCGAG			216

- (2) INFORMATION FOR SEQ ID NO:828:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 386 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:828:

GA	ATTCGGCC	AAAGAGGCCT	AAAAAAAAGA	AGATGGGTTT	TTTAAGTCCA	ATATATGTTA	60
TT	TTCTTCTT	TTTTGGAGTC	AAAGTACATT	GCCAATATGA	AACTTATCAG	TGGGATGAAG	120
AC	TATGACCA	AGAGCCAGAT	GATGATTACC	AAACAGGATT	CCCATTTCGT	CAAAATGTAG	180
AC	TACGGAGT	TCCTTTTCAT	CAGTATACTT	TAGGCTGTGT	CAGTGAATGC	TTCTGTCCAA	240
CT	AACTTTCC	ATCATCAATG	TACTGTGATA	ATCGCAAACT	CAAGACTATC	CCAAATATTC	300
CG	ATGCACAT	TCAGCAACTC	TACCTTCAGT	TCAATGAAAT	TGAGGCTGTG	ACTGCAAATT	360
CA	TTCATCAA	TGCAACTCAT	CTCGAG				386

- (2) INFORMATION FOR SEQ ID NO:829:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 293 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:829:

GAATTCGGCC	AAAGAGGCCT	AGCTGAATCC	TAGATTTCAG	CTTCTCACTC	AGAATTTAAG	60
CTGTTTTCAG	TACCAGAAAT	ATTTAAGACT	GTTAGTTTAA	CTTCTAAGAA	TAGCAGATAA	120
AGCGTATAGG	TGTTTTGAGA	TAACCGTATT	CATAGGAAAA	ACAAACATAA	AACTTTCATA	180
ATTTTGGGAA	GAGTTACACA	CAAAAATATC	ATCATTGAAT	AATTAGTACA	ACAAAAATGC	240
ATTTGTTTGT	CCTAAAGGTT	GAAATGAACA	GAATCATGAT	GGGAATACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:830:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 146 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:830:

GAATTCGGCC	AAAGAGGCCT	AATTGAATTC	TAGACCTGCC	TATGTCCTAT	TCCCTGTGTC	60
CTGCAAGACC	CCCTTTGGTT	TGGTTTTCTT	TTCTTTTCTT	TTTTTCTTTT	TTGAGACTGC	120
GTCTTGCTCT	GTCTCCCAGG	CTCGAG				146

- (2) INFORMATION FOR SEQ ID NO:831:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 158 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:

GCGATTGAAT TCTAGACCTG CCTCTCATCC ACTATTGTCT TTCCCCAATT TTTTTCTAGC
CTTATCTTCC AGAATTCCTC TCAGACATAG GTGGCCCTGG TTGCTTGATC CTGTCTCTAA
120

GTTGGTCTTT CATGTTTTCT CTCCTCAGAT TGCTCGAG	158
(2) INFORMATION FOR SEQ ID NO:832:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:832:	
GAATTCGGCC TTCATGGCCT AGCTGATTTA AATCTAAAAA CTGGATAAGA AGCTGTGGCT TGTAATTAAA AATAGACCTT TATTCACTAG ACCTACAGTT TGCTTTTTTC ATATGTTAAG AAAAGTTTAA TATCCTGCI. CTCTATTTCA GTTCTAGGGG CACCACTATC AGTTAACCCT AAAGATTTCT GTGGTGAAA CCATTTTGAT TACCATCTTG CTCTGCTGCC AGTTATGGTA ACCAAACTCT CTTTGTTTCT GGATGCTAAA TCTGTCCACT TGTGCCTTAA CTACATCCTA ACTCCCGTCA ACTCGAG	60 120 180 240 300 317
(2) INFORMATION FOR SEQ ID NO:833:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:833:	
GAATTCGGCC TTCATGGCCT AGCCCCCGGA GCCCACCACA GTCCCCAGAG TGTGATAAAA ACAATTTTTA TACTTCTTAT CTCTTTCTAG TAGTCTACAT CCCATTCCCA GTCTTTCCAA TCATAAAAAT TTGTAGTTTA TTTAGTTCAC ACTTGAACGT CCTATGAACA TGTTTAAAC CTTTTACCTA TCTTGTTTCT TGTCATTATT CTTAAGCCAT TGATACAGAA ATCAGAACCA AATTTAATAT TGTTGTGGGT ATGAGACAGT TTCTGTCATG TTTTAATTTT TTCCTTAAAG TTTTACTATG TACTTCATAT ATACCGGGCA CTTCTCGAG	60 120 180 240 300 339
(2) INFORMATION FOR SEQ ID NO:834:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:834:	
GAATTCGGCC TCATGGCCTA TGACTTTTAA GTTTCTTATT ACACTGAGAA ACACCTAACT ATCCTAATAG AATTAAATTT CCCTAAGTTA TAAGACACTT GAATTTTTAA AAAAGAGATA ATTAAATTTC TCCTATATTT TATTTCATTT ATTTTTTCAG TCATGCTCCT TCTGTATCTC CTATATTTA TTATATTACT TACATGGCTT TATTTTTACA ATAACTCTTT TTTTCCCTTC	60 120 180 240

300 360

396

TTTTATTAT TTGTTTATTT TTGGAAACAG AGTTTCCTTA TGCTGCCCAC GCTGGTCCTG
AGCTCAAGCA ATCTTCACGC CTCAGCCTCC CAAAATTATA GGACTACAGG CATGAGCCAC

TGTGCCTGGC CTAAGCCACT GCACCCGGCG CTCGAG

- (2) INFORMATION FOR SEQ ID NO:835:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:835:

GAATTCGGCC	TTCATGGCCT	ACTTTTACTC	ATGCATAATT	TTGTAAAATC	CTACATTGGT	60
CATTTGGAAA	ATATTGATTC	ACTGAGTAAT	ACAACTCTTC	CAAATGTTGA	ATGTTTCATT	120
CTACAATATC	AGAAACTCAA	TTTGTTAATG	TTACTACTAG	TCTCATCAGA	AATGTCTTTA	180
AGTATTTGTT	AACTGGCAAA	CTCATAGTGA	CGACTACAGG	CTTTCCAGAA	TTTTCATTTT	240
CATTTGAAGT	CTGAATTTTA	TCAACTATAA	ATACTGTCAG	TTGTTTCCCT	CGAG	294

- (2) INFORMATION FOR SEQ ID NO:836:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:836:

GAATTCGGCC	TTCATGGCCT	ACTCTGATAC	TAACTGTAGT	CTACATTTAT	ACATTGTGTC	60
TGAATGCTGG	TTTTGTGGCT	TCACTAGCTC	CCTTTTTCTC	TCTCCTTTTT	TATCCTGTCT	120
TTTGCTGCTG	CTTTCCACCT	TCTGTCCAGC	TCCATCTTCA	GACAGCTCCC	TGTATAACGC	180
TCCACTTCCT	GAGTATTCCA	GTTGCCAGCC	TCCTTCAGCA	CCTCCTCCAT	CATACGCTAA	240
AGTCATCTCA	GCTCCAGTGT	CAGATGCCAC	TCCTGATTAT	GCTGTAGTGA	CTGCTTTGCC	300
ACCTACTTCC	ACACCCCCTA	CACCACCACT	GCGACACCCA	GCGACACTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:837:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:837:

GAATTCGGCC	TTCATGGCCT	ACCGGACCTT	GAAAATGGAA	TGTTCAGAAA	CACATGTGCA	60
AGGGAGCTGT	GCCAAGCTCA	TGTTGCGAAC	AGGCCTCCTG	ATGAAGCTTC	TCAGCGAGCA	120
GCAGGAAGCA	AAGGCATTGA	ATGTAGAATG	GGATACGGAC	CAACAAAAAA	CAAATTATAT	180
TAATGAGAAC	ATGGAACAGA	ATGAACAGAA	AGAGCAGAAG	TCAAGTGAGC	TCATGAAAGA	240
AGTTCCAGGA	GATGACTATA	AGAACAAACT	CATCTTCGCA	ATATCTGTGA	CTGTAATACT	300
AATAATTTTG	ATTATAATTT	TTTGTCTTAT	AGAGGTGAAT	TCACATATGC	TCGAG	355

- (2) INFORMATION FOR SEQ ID NO:838:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 540 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:838:

GAATTCGGCC	TTCATGGCCT	AAAAAATCTA	GTTGAGAAAA	AGAAAGAAAC	CAAGAAGGCT	60
AATCACAAGG	GTTCTGAAAA	TAAAACTGAT	TTAGATAATT	CTATAGGAAT	TAAAAAAATG	120
AAAACCTCAT	GTAAATTTAA	GATAGATTCA	AACATAAGTC	CGAAGAAGGA	TAGCAAAGAA	180
TTTACACAAA	AAAATAAGAA	AGAGAAAAAA	AACATTGTTC	AACATACTAC	AGACTCTTCT	240
CTCGAAGAAA	AACAAAGGAC	ATTAGACTCA	GGCACCTCTG	AAATTGTGAA	ATCTCCCAGA	300
ATCGAGTGTT	CTAAGACAAG	AAGAGAAATG	CAATCAGTGG	TTCAACTCAT	AATGACAAGA	360
GACAGTGATG	GTTATGAAAA	CTCAACAGAT	GGTGAAATGT	GTGACAAAGA	TGCTCTGGAG	420
GAAGATTCAG	AAAGCGTTAG	TGAAATAGGA	AGTGATGAGG	AATCTGAAAA	TGAAATTACA	480
AGTGTTGGTA	GAGCTTCAGG	TGATGACGAT	GGAAGTGAAG	ATGATGAAGA	GAAGCTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:839:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 539 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:

GAATTCGGCC TTCATGGC	CT AGCATTTCAT	CTCTAAATTG	GGGAGAATAG	AAGCATCTAC	60
TTCATGTAGT AGCCAGGA	TT AGAAGAGGGA	GGAATAACTG	GGCCCTGGAT	AGAATGTGAT	120
GAATGTATAT TCTTAATG	AG AAGTGGAAAT	AATTTGTGGT	TGAGAGCTGT	GCCTCAGATC	180
AGAGTGACAG GATACATG	GC TAGGCTATAT	TTTCCAGCAG	ATTAAGAGCT	GCAGCCCAAG	240
ACTCTGAAAT ATGAAGAA	AA AAGGAGAAGA	TGACAGCATA	TCTTTTTAAA	GAAATATTTT	300
CCAGCCAAAT GGTGCAGC	AG AGGACTTCCA	GGAATTTGTT	CTTGTTCTGT	ATCAAAGGTG	360
AAGAGTTCGT AGCCTTCA	AG GAAACAAGAA	ACCATGGGAT	GGAGTGAAGG	AAGGTGGCCT	420
GGAACCAGCT GCTGAGCC	TC TCTGAGCCCC	AGTTTCCTCG	TCTCTAAAAT	GGGGCTGATC	480
TCCTCTCCCT CAGACTGT	TG TTGCAGGAAT	TAAAACAGGT	GTTGAGTGGG	CTGCTCGAG	539

- (2) INFORMATION FOR SEQ ID NO:840:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:840:

TTCCACAGCT CTGATATTCA GTAACCCATG TGGAGAACAA AAGGATTTTG CTCCATC	SAAG 60
TCTAATTGCC TGCTGAATAA ATAAATAAAT AGATGAAGCA CTGCATGCAT TAAATGA	\AAG 120
TAAATATTGA CCCTGCCACC ATATGTTTGC TGGGGTGCTG GCTGAAGTGT GCTGGCA	AGGT 180
CCAATCAGTC AGAGTCTGCC AGCCCAGCAA GCAGGAGAGA CAGGAATATC AAAAAGC	GCGC 240
TCCTGCTTGT GCCTTAATCT TTGTCCAACC CCCAATTCCT CCACCACAGG CCTCGAC	297

- (2) INFORMATION FOR SEQ ID NO:841:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 366 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:841:

GAATTCGGCC	TTCATGGCCT	ACCTTATTAG	TGATTGGCGA	TTCAGGCCAT	GTCATAGGGC	60
CTTTCAGACA	AAAGGTTCTT	ATCCCAGTCA	GCTGGCCAAA	ACATTAACTT	TGGATTTCTT	120
ACCCTGCTAC	AGCATCTTCT	AGAAAGGCAG	CAAGATAATA	TTGTGGCAGT	GCACAGATAA	180
CATCAGGGTA	GACTTGACTG	GAGAAAACCA	AATTCTGCGC	TTGCTCCTGT	GTGCCCCCAT	240
CCAGCTGTGC	ATGCACACAC	AGGACACCTT	TCTAGTATGA	AGAACTTGCA	TCATGTCTGC	300
CCTCTATTGA	GCACCCCCTT	CTAGAAATAC	TTCCAAGTAT	TAGCATGTGA	ACTGTTGACT	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:842:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 190 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:842:

LIG CUTCGAGCIG ACTIA	IGAAT TUTTTUTGIG IGATUGIAA	1 60
AAA GAGAATCTTC ATCTG	AATCC TCAGCCTGGG AATCTTCCTC	120
CCA CCCAGTCTGA GTCTAC	CTTCA ATGGCCCGCT CTTCCCCATC	180
		190
	AAA GAGAATCTTC ATCTG	ANA GAGAATCTTC ATCTGAATCC TCAGCCTGGG AATCTTCCTC

- (2) INFORMATION FOR SEQ ID NO:843:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 627 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:843:

GAATTCGGGC	TTCATGGCCT	AAGCTCCGCG	AGCCCCCTAC	AACTCGTTTC	CTTCCGTTCA	60
CCTTCGCAGG	GCGGCGACTG	GCGGCGCGAT	GGACCTGACC	GGGCTCCTGC	TGGACGAAGA	120
AGGCACCTTC	TCCCTCGCCG	GCTTCCAGGA	CTTCACGTTC	CTCCCAGGAC	ACCAGAAGCT	180
GAGTGCCCGG	ATCCGAAGGA	GGCTCTACTA	TGGCTGGGAT	TGGGAAGCCG	ACTGTAGCCT	240
GGAGGAGCTC	TCCAGCCCGG	TGGCAGACAT	TGCTGTCGAA	CTGCTCCAGA	AGGCAGCCCC	300
CAGCCCTATT	CGCCGACTCC	AGAAGAAATA	CGTAGCTCAT	GTGTCCCGGG	AGGCATGCAT	360
CTCCCCATGT	GCTATGATGC	TGGCTCTGGT	GTACATTGAA	CGGCTCCGGC	ACCGAAACCC	420
AGACTACTTG	CAGCATGTGT	CATCCTCTGA	CTTGTTCCTG	ATCTCCATGA	TGGTGGCCAG	480
TAAGTACCTC	TATGATGAAG	GGGAGGAGGA	GGAGGTCTTC	AACGACGAAT	GGGGAGCTGC	540
TGGGGGTGTG	GCCGTGCCCA	CTCTCAATGC	CTTGGAGAGG	GGCTTCCTGA	GTGCCATGGA	600

TTGGCATCTC TACACTGAAC GCTCGAG	627
(2) INFORMATION FOR SEQ ID NO:844:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:844:	
GAATTCGGCC TTCATGGCCT ACCTGAGCTG CCGAAGCCGC CGTCCTGCTC TCCCGCGTGG GCTTCTCTAA TTCCATTGTT TTTTTTAGAT TCTCTCGGGC CTAGCCGTCC TTGGAACCCG ATATTCGGGC TGGGCGGTTC CGCGGCCTGG GCCTAGGGGC TTAACAGTAG CAACAGAAGC GGCGGCGGCG GCAGCAGCAG CAGCAGCAAT CTCTTCCCGA ACACGAGCAC CACAGGCGCC CGAAGGCCGG AACAGGCGTT TAGAGAAAAT GGCAGACGAT ATTGATATTG AAGCTCTAGC TCGAG	60 120 180 240 300 305
(2) INFORMATION FOR SEQ ID NO:845:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:845:	
GAATTCGGCC TTCATGGCCT ACCAGAAAA ACTTACATTG AAGAGAGGAT TCCTTGTTTT GACTATGTGT GTTTCTGCCG TCTTAGGCAG CCAACGTATT GGTTTACATG GATCTGGAGG ATTATGCACA CTAGTGTTGA GTTTCATTGC AGGGACAAAA TGGTCCCAAG AAAAGATGAA AGTCCAAAAG ATTATTACGA CTGTATGGGA TATTTTTCAA CCACTTCTTT TTGGTTTAGT TGGAGCAGAA GTATCTGTTT CATCGCTTGA ATCAAATATT GTTGGCATAT CTGTTGCCAC TCTAAGTTTG GCATTATGTG TTCGAATTTT AACCACATAT CTATTGATGT GCTTTGCTGG TTTTAGTTTT AAGGAGAAAA TATTTATTGC TTTAGCATGC ATGCTCGAG	60 120 180 240 300 360 409
(2) INFORMATION FOR SEQ ID NO:846:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:846:	
GAATTCGGCC TTCATGGCCT AGGCACGGTA CATACGATTA TTATAAACAT CAGCTGCGGT TCTGGGAGTG AGCTTGTGTC GTGTTAGTGC CATCTCCCTG ACAAATCTGA CCTGTACCCA CATCTCAGGC TGGGAAGGAG TAGCTGGGCC TCCCTTTAAT GCAGCGGCAC TGGTTTGGGT CACAAGAGCT GGTTTGATCA ACCCCTGACT CCCCCTGGCG GGAGGTGCTC GTCACATCTG GGAGCCTGAG CAGAGGTGCC GGGGGCTTGG AAGCTGGAGA AATGATGGAT CTTTCTCCAG	60 120 180 240 300

GAGAAACAAT TCTTATCTTC ACATCNGCCC CGTGCTCCAA ATGAAGAGCG CGTTTGCATA

GCTGCTCGAC	;	370
(2) INFORM	NATION FOR SEQ ID NO:847:	
(1)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 504 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:847:	
	TTCATGGCCT ACGCGCGGCC GAGCGGAGGC GGAGTCGGCG CCGAGAACAT	60
	AAAGCTGGAA AGGACAGTGG GAAGGCCAAG GCTAAGGCAG TATCTCGCTC GGGCTACAGT TTCCTGTGGG CCGCATCCAC AGACACTTGA AGACTCGCAC	120 180
	GGAAGGGTGG GTGCCACTGC TGCCGTGTAC AGTGCTGCGA TTCTGGAGTA	240
	GAGGTGCTGG AGCTGGCAGG TAATGCTTCT AAGGATCTCA AAGTAAAGCG	300
	CGTCACTTGC AGCTTGCAAT CCGTGGTGAT GAAGAGTTGG ATTCTCTTAT	360
	ATAGCTGGGG GTGGTGTGAT CCCTCACATC CACAAATCTC TGATTGGAAA CAGAAAACTG CTTAGAGGGA TGCTTTAACC AACCTCTTCC TTCCCCGTCA	420
	ACTGGGACCT CGAG	480 504
(2) INFORM	ATION FOR SEQ ID NO:848:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 436 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(11	MOLECULE TYPE: cDNA	
. (xi	SEQUENCE DESCRIPTION: SEQ ID NO:848:	
GAATTCGGCC	TTCATGGCCT AAACAAGCAG AGGGACTCCC CAGATAGCTT CATACCCAGT	60
	AACAAGTGTA GTTTTAGGCT CTGTCTTGGC ATACTTGAGA GCACAATGGC	120
	CAGGCATTTG AACTCGCTGT TTAATCAAAT TCTTCTTTAA TCTAAAGTGA	180
	GAGAGCATAT ACACTTAACC CTTGAACAAT GTAGGGGTTG GGGTGGGGAG GTGAAGTAAA AATTTGCTAA TAACTTTTGA CTCCCCCAGA ACTTAACTAT	240 300
	CTATTGATTG GAAGTGTTAC CAACAGCATA CACAGTTAAC ATATATTTTG	360
	GTGTTATCCA CTATATTCTT ACAATAAAGT TAGCAAAAGA AAAAAATGTT	420
ATTAGGAATC	CTCGAG	436
(2) INFORM	ATION FOR SEQ ID NO:849:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 502 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii	MOLECULE TYPE: cDNA	
(xi	SEQUENCE DESCRIPTION: SEQ ID NO:849:	
,		
GAATTCGGCC	TTCATGGCCT ACATGAGCCC AGGAGTTGAA GGCTATAGCC TGGGTGACAC	60
	CATCTCTAAA AAATATATAA ATAAATAAAG TTAAGGATGC TGCGTGGTTT	120

ATATGTTCAG AAAGAGATTG AGGTAATAAA AGAGTTTTTG GCCAGGCTCT GGCTTACACC

180

311

reducered Adapticing Garracage Argage Care Geoccage GGAAGTAGGT	240
TTTTTGAAGA GTCAGCTGAA AACAACTGTT GCCGTATTCG GAATTTAAAA TTTTAATTTG	300
AAAATATTAT AACTGAGAAA TTATTGTATA TATTTATGGT ATACAGCGTG ATGTTATGAT	360
ACATGTATAC AATGCAGAAT GATTAAATCA AGCTATTTAA CATAGCTGTC ACCTCAAATA	420
CTATTTTTGT GGTCAGAAAT TTGAAATTTA TTATCTCAGG AATTTTGAAA TGTACAATAC	480
ATTATTATTA ACTGTTCTCG AG	502
(2) INFORMATION FOR SEQ ID NO:850:	
•	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 291 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
•	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:850:	
GAATTCGGCC TTCATGGCCT AGATAAAAAG AAACAAAAAA GAGAAGATAT GATAAGAGAA	60
CAGAAGATAT ACCATAAATA TTTGGCACAG AGACGTGAGG AAGAAAAAGC TCAGGAGAAA	120
GAATTTGACA GAATATTAGA GGAAGACAAG GCAAAGAAGT TGGCTGAGAA GGACAAGGAG	180
CTGAGACTTG AAAAGGAGGC AAGGAGACAG CTTGTGGATG AGGTCATGTG TACAAGAAAA	240
CTTCAAGTTC AAGAAAAGTT GCAACGAGAA GCTAAAGAAC AGGAACTCGA G	291
(2) INFORMATION FOR SEQ ID NO:851:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 311 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(::) MOLECULE MADE -DIE	
(ii) MOLECULE TYPE: cDNA	
(wi) CEOUENCE DECORTRETON, GEO. TO NO. 051	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:851:	
4	
GTTCTGTAT TCTGTTGGTT GGAGTGTTCT ACTATTGTTG GGTGGAGTGT TCTATCTTCT	60
STIGGGIGA GIGITCIGCI GUIGITGGGI GGCGIGTGI ATATICIGI GIGGGGIGA	120
GTGTTGTATA TTCTGTTGTT GGGTGGCGTG TTCTATCTTC TGTTGTTGGG TGGATGGATT	180
GTTCTGTATT CTGTTGGGTG GCATGTTCTA TCTTCTGTTT TTGGGTGGAG CGTTCTATCT	240
CTGTTGGGT GGCGCATTCT ATATTCTGTT GTTGGGTGGC GTGTTCTGTA TTCTGTTG	300

(2) INFORMATION FOR SEQ ID NO:852:

GGTGGCTCGA G

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 532 base pairs
 (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:852:

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- GAATTCGGCC CTTCATGGCC TAGTCTCATC TCAGAGTACT CAGAGAAACT ATTTTTTAAT 60

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AATTATAAGT	TTGTTCTCTT	TTTGTCGTGC	TACTTAGGCT	TTTATCATTT	TGTCCTATCA	180
TTAGGGAAGT	GGCTCCNNNN	CTTACAGCTA	ATTTTTTTT	CAATTTACTA	ATGACTTTTT	240
GTGGAGGTGG	GGATCTCTTC	TGTTCAACAT	TTTCTATGAT	TCATCTCAAT	CCTCCAGTGA	300
AAAAATTATT	ACAGTTGCAG	TAAGTTCAGT	CATAGGGGCA	CTGGAATGAG	TCCTTAAAAC	360
TTTATGCTGC	TGCTTTTGCA	ATGATGGATT	GCCTGAGAAT	TAAGGAAAGA	TAACTACTCT	420
CTTGGTCACT	GTATTTCCAA	TCAACCATAT	CCTCCCAGAA	TATGATTTCT	TCCCTCAGGC	480
ATTTTAGAAA	AGAGACAAGA	GACAGATTTT	TTTTTTCAGG	CAATGACTCG	AG	532

- (2) INFORMATION FOR SEQ ID NO:853:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 415 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:

GAATTCGGCC	TTCATGGCCT	ACTTTTTGAT	AAGCAACTAG	TGGTCTCATT	ATCAGAGGTC	60
CCTGAGGGGC	CCTACAGGCC	CCCCCAGGTT	CTGCCCCCAA	GATTCTAAGA	GAGACCTTGT	120
GCTAGGGCTC	TAGTCTTGAT	GTTCTTTGCA	TTGTTTGGAT	ATGAAGCCCA	GGATATGTGG	180
GCACAATAAG	GTAAATCATG	AGATGTGAAG	GAGAATGAAG	ATCAGGCCAG	AGGTCACCAT	240
TCATTGAAGA	GCCAGAGAAA	AAGAAAATTA	GTGCACAGAT	TTGTGTAGAT	TTACAGAGAA	300
CTTCTATTTG	CTGCAAGAAC	TTCATCAGGC	GCTGCACCAT	GCCTGATTTG	GAAAGGAGCT	360
TCTTTGGGGC	CTGATAGAAC	TGAATTAATA	TGAAGAAATT	GAAGTGGCTC	TCGAG	415

- (2) INFORMATION FOR SEQ ID NO:854:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:854:

GAATTCGGCC	TTCATGGCCT	AGTAAAATTA	GCTGAAAAAT	AATTTTCCAA	TGCAAATACT	60
AATGAGGGTT	ATATGACCGT	TGTCCAAAGC	ATTTGCAGTG	CTGCATGACA	TTTGTCCTAA	120
AACCTGACTC	TTAAAACATT	CCTTGTGAAA	ATAGAAATAT	TCCCATGCCT	AGATTCCAAA	180
TAATAAAAGA	CACTGAGAGT	GTTTTCAAAA	TTAATGGACT	GATTTAAATT	TCACTGGAAA	240
GCAGCTTTTT	AAAACTAAAT	TGTCTGGATG	TGGCCTCCCT	GTGATCACTT	CCAACTGCTT	300
ACTGCCAACT	TCTGGCGGCT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:855:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 616 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:855:

GAATTCGGCC	TTCATGGCCT	AACGGCCTTC	AGATGGAAGG	AGGGCAGGTG	CATATCTGTT	60
AGCAAAATCT	TCACAATCAT	CTTGAGTTTC	TCAGCAAAGT	CGGCCTGGCT	GGAAATTCCT	120
GGCGCTGCCA	TGCTGAAGGT	GACCAGCAAC	ACAGCCCCCA	GGATGGTCAG	TTGTTCCAGC	180
TGCAACTGGA	GCTCGTGGAA	GCGAGACTGG	TCCATTAAAA	CTGTTTCGGG	GAACGGCCTC	240
TGGAGGTGGT	CCCACTTCAG	AAGCTTCAGG	TAAGCGTAAT	TCTGGACAGC	AACAGGGCTC	300
AGCCTGGGCA	TGTCCCCAGA	GCCAGCAGCC	ATTCCCCCCA	CTGGCAGGGC	GTGTTTATAC	360
TTCTGAGTCA	TAAGGTCCTC	TGAGGCTTCT	TCCAGCCACT	GGGTGACAAA	GTCCAGGGAA	420
TTTGGTTGCC	TCTCCAAAAT	CTCTTGAAAC	TTCTTCCTTT	CGTATTCAAC	TGACTGCTGC	480
ATGAGATGAG	GCCTGATGCT	ACTGATAGCA	AAGTTGGCCA	TGTCCACTTT	CATTAGGTCC	540
AACACAGAAA	AAATTTCTCT	GAAAAGGGGC	ACTATTTCCT	TAATGTCCTT	TAGTTTCTTA	600
ACTTCCTCAT	CTCGAG					616

- (2) INFORMATION FOR SEQ ID NO:856:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 497 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:856:

GCTCTGGGTG AAAAGATCT	CACCAATGT	ACATAATGTG	GCCATCCTTT	CCATTTTCAA	60
GAAGTTGCCT TGCTTTGAT	A CTGCAAATTC	AGTATTTGTA	CACTGGAATG	ATAAAAAGAT	120
GTTCCACTTT CTTTTCAGC	C AGAAAGCTTC	CTCGTTGTGT	GTGTGCGTGT	GTGTCCCATC	180
CTATTGCCTG TTCTTTCTA	A ATCTACATTT	TGTTACCTTA	TCCAATACTT	GCTTTAGCAA	240
GAACATTATG GGGCCCACC	A TATTCCACAG	GGCCATGCCA	ACCTTTGGAA	AAAAGGTAGG	300
TCAAGGAAGA AATCAGAAC	A AACCCTGTGA	CCATTCCACC	TCCTTGCATC	TTGGGCTTGG	360
GTTTGGAAAC TGACCAGCA	A GCTGGAGCTG	CCACCACAGA	GAAACATCAA	AGCAAAAGGG	420
TTCCAGGACC AGAGATTAG	TAACTAGCTA	CAGGCCAGAG	GAATGCTTCC	CTCTCTAGAT	480
CAACAAGCAC CCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:857:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:857:

GTTCATGGCC.	TAGATGCTGG	TTTGTTTTTG	Ա . Ա.	TTTGAGACAG	TCTTGCTCTG	60
		TGGTGCGATC				
TONCCCOGGC	DAJUTUADOI	IGGIGCGAIC	TCGCTCATIG	CAACCTCTGC	CICCCAAGII	120
CCAGCAAGTC	TCCTGCCTCA	GCCCCCCACC	GAGTAGCTGG	GACTACACGC	AAGTGCCACC	180
ACGCCCAGCT	ACTTTTTGTA	TTTTTAGTAG	AGATGGGGTT	TCACCATGTT	GGCCAGGCTG	240
GACTCGAATT	CCTGACCTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:858:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 441 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:858:

GAAACTATAA TO	CATCAGTAC	TGTAATGAGC	AATTATGAGG	CCTACAAGCC	TTCCACAGGA	60
GCTATGGGAG AT	CGACTAAC	GGCAATGAAA	GCAGCTTTCC	AGTCACAGTA	CAAGAGTCAC	120
TTTGTTGCAG CO	CAGTTTAAG	TAATCAGAAG	GCTGGAAGTT	CTGCTGCTGG	GGCAAGTGGG	180
TGGACTAGTG CA	AGGGAGCTT	GAATTCTGTT	CCAACTAACT	CAGCACAACA	GGGCCATAAC	240
AGTCCTGACA GO	CCCCGTCAC	CAGTGCCGCC	AAGGGCATCC	CAGGCTTTGG	CAATACTGGC	300
AACATCAGTG GT	rgcccctgt	GACCTACCCG	TCTGCCGGAG	CCCAAGGAGT	CAACAACACA	360
GCTTCAGGGA AT	TAACAGCCG	AGAAGGGACT	GGGGGCAGCA	ACGGGAAAAG	AGAGAGATAT	420
ACTGAGAACC GO	GGAACTCGA	G				441

- (2) INFORMATION FOR SEQ ID NO:859:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 384 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:859:

GAATTCGGCC	TTCATGGCCT	ACTGGTCGCC	AATGTGCTGC	AGGTCATGGC	TCCGGAATCA	60
AATTGGGCTC	AAACGGGGCA	AGCTCCAACA	CAGTGGAGCC	TGGCGCTACT	CCCACCTCCA	120
CCTTGCGGAT	CTCAGAGCTG	CAGGATGGCT	CTGCCCACCG	CACCCTGAGC	TGGCCCCGCT	180
TGGGGCTGGC	ATTGGGGGAC	AGTGTGTTCT	GGGCGTCTCT	GCTCCTCTCT	GCTGGTGCCT	240
GTGCCTCTGC	TGGCCGCCCA	CTCATAGATG	TCAGAGCCAC	AGGACGGCCC	CGCAGAATCC	300
CTGCGCCGAC	CCTGCCGGGG	GCTGGCTTTG	GTGCACATGC	AACTCGTCAT	CGTGGTCCCC	360
ATGGGCACCT	CTGCTCTTCT	CGAG				384

- (2) INFORMATION FOR SEQ ID NO:860:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 421 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:860:

GAATTCGGCC	TTCATGCCTA	CGTTTCCCGA	GAAACCAAGC	CACAAAAAGT	ACAGGGCCGC	60
CCTGAAGAAG	GAGAAACGAA	AGAAACGTCG	GCAGGAACTT	GCTCGACTGA	GAGACTCAGG	120
ACTCTCACAG	AAGGAGGAAG	AGGAGGACAC	TTTTATTGAA	GAACAACAAC	TAGAAGAAGA	180
GAAGCTATTG	GAAAGAGAGA	GGCAAAGATT	ACATGAGGAG	TGGTTGCTAA	GAGAGCAGAA	240
GGCACAAGAA	GAATTCAGAA	TAAAGAAGGA	AAAGGAAGAG	GCGGCTAAAA	AAACGGCAAG	300
AAGAACAAGA	GAGAAAGTTA	AAGGAACAAT	GGGAAGAACA	GCAGAGGAAA	GAGAGAGAAG	360
AGGAGGAGCA	GAAACGACAG	GAGAAGAAAG	AAAAAGAGGA	AGCTTTGCAG	AAGGGCTCGA	420
G						421

- (2) INFORMATION FOR SEQ ID NO:861:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 271 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:861:

GGATTTCTTT	GGAATGGGCA	AAGAAGTGGG	GAATCTGCTA	CTGGAAAACT	CACAGCTTCT	60
GGAAACCAAA	AACGCCTTGA	ATGTGGTGAA	GAATGACCTG	ATTGCCAAGG	TCGACCAGCT	120
GTCCGGGGAG	CAGGAGGTGC	TGAGGGGCGA	GTTGGAGGCT	GCTAAGCAGG	CCAAAGTCAA	180
GCTGGAAAAC	CGTATCAAGG	AGCTGGAAGA	GGAACTGAAA	AGAGTGAAGT	CCGAGGCCAT	240
CATCGCCCGC	CGTGAACCCA	AAGTTCTCGA	G			271

- (2) INFORMATION FOR SEQ ID NO:862:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:862:

GCGGCTCTTT	GGGAGGTGGT	CAGGGGAAAA	GATGGTCAGT	GCTTTTTCTG	GACAAATCCA	60
$\tt GGGGCCAATT$	GAGGTGGGGA	GTCTATGAGA	AGGGCCCTGT	CAGCTGAGGC	GAGGGAAAGG	120
GCAGAGGACC	TAGAATAAAA	GGATATGGCC	TCTCTGTGCA	CTAGCAGGAT	GGGTAGGAAA	180
GGGAGATATG	AAAAGACGAA	ATGGGGACCG	GGTGCGGTGG	CTCACGCCTG	CAATCCCAGC	240
ACTCTGGGAG	GCCAAGGCAG	GCAGATCACC	CGAAGTCAGG	AGCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:863:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:863:

GCTCGAGTGG	AATGGGCCGA	GGAGATGGAT	TTGATTCTCG	TGGCAAACGT	GAATTTGATA	60
GGCATAGTGG	AAGTGATAGA	TCTTCTTTTT	CACATTACAG	TGGCCTGAAG	CACGAGGACA	120
AACGTGGAGG	TAGCGGATCT	CACAACTGGG	GAACTGTCAA	AGACGAATTA	ACAGAGTCCC	180
CCAAATACAT	TCAGAAACAA	ATATCTTATA	ATTACAGTGA	CTTGGATCAA	TCAAATGTGA	240
CTGAGGAAAC	ACCTGAAGGT	GAAGAACATC	ATCCAGTGGC	AGACACTGAA	AATAAGGAGA	300
ATCAACTTCA	AGAGGCTCTT	CTCGAG				326

- (2) INFORMATION FOR SEQ ID NO:864:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 546 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:864:

GGAATGGGGA	GAGGGATCTA	CCAAGGTNAC	AGCAGTTTTT	TGAGCAGCTG	GCACGTGCCT	60
CTGCTGCCAA	CATGATGAGG	TACAGAACCC	AGCACAGGGA	ATGCTCAGCC	TGTGACTGTG	120
AGCTGGATGT	GAGAGTCTCC	TGAGGACCCT	CGGTATACTC	AGAGCATTTC	CTCTCAGGGT	180
GCAGGAAGAG	GAAAGCAGAG	GAAGTGGACT	TGAAGGACCA	AAGGTGGGAT	CCTAGCTGGG	240
CCAATCACTG	AGAAGCCATG	TGGTCTTGGG	CAAGTCATTC	CCTTCTCTGA	GCCTCAGTTT	300
CCCCATCTGT	AAAATGGAGG	TAATGATACT	ATGCCTACCT	CATCATCATG	CTGTGAAGAT	360
TAAATGAGTT	ATGCCATGGA	AGTGCTGTAC	ATTACCCATT	GATAATGTCT	CAGTGGCCTC	420
TCAATGAAAT	GGAGTGTGAC	AGAGTGCCAC	ACTCTGAAAC	GGCTCATCCC	CGGTGATGGT	480
GCTGGGACTA	GAACCCGGGC	AACCTCGCAG	TGCCATGCCC	TACTGCATCA	CTACGTCCAC	540
CTCGAG						546

- (2) INFORMATION FOR SEQ ID NO:865:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 808 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:865:

GAATTCGGCC	AAAGAGGCCT	AAGGATTCAT	AGTATAAATC	TTTAATTTAT	CACAGTCTGT	60
ATTAACTAAT	ACTABACCAC	TTCGCATATA	AATACATCAC	AACAGTATAC	TTCCGTTTAT	120
			TACATTTTAC			180
GCTATCTTGG	TCTTTGTACT	TITGITITIG	TACATTTTAC	TTTGGCATAA	ATGTCAAAGI	
ACAGTATTGT	TATTTAGCTT	TAAATATTCA	TTTGCCTCTC	TCCTTAATGT	AAAAAGGCTT	240
CTTCTCAACT	TCCTGACATT	TCTTGCTAAA	CTATACACGT	CTGCCCTGTT	TTCCAACAGC	300
ACACTGTTCT	GTACTGTCCC	TTATTTATTT	TTTTTTTTT	TTTTTTTTGG	AGACGAGCTC	360
GTTCTTTGCC	CAGGCCGGAC	TGCAGTGGTG	CTATTTCGGC	TCACTGCAAA	CTCTGCTTCC	420
CGGGTTCACG	CCATTTTCCG	GCTTCAGCTT	CCCGAGTAGC	TGGGACTACA	GGCGCCCGCC	480
ACCACGCCCG	GCTAATTTTT	TGTATTTTA	GTAGAGATGG	GGTTTCTCCG	TGTTAGCCAG	540
GATGGTCTTG	ATCTCCTGAC	CTCGTGATCC	GCCCACCTCG	GCCTCCCAAA	GTGCTGGGAT	600
TACAGGCGTG	AGCCACCGCA	CCTGGCCTAT	TCTGTCCCTT	TTTAAAGCAG	TTCTCTTTTA	660
AAAAATTGTG	GTAAGATATA	AATCACATAA	AATTTGCAGT	TATAACCATT	TTAAAGTATA	720
TAATTCCATG	GCATTAATTA	CAGTCACAGT	CTTTTACAAC	TATTATTACT	ATGTATTCCT	780
AAAGTTTTTT	TACCCTCCCC	CCCTCGAG	-			808

- (2) INFORMATION FOR SEQ ID NO:866:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 361 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:866:

GAATTCGGCC	TTCATGGCCT	AAAAGAAAAT	GGCTTCAGTA	AGTTAGGATG	AAAAATGAAA	60
ATATAAAATA	AAGAAGAAAA	TCTCGGGGAG	AAAAAATTT	ATGCCTCAAT	TTGGCAATCT	120
ACCTCCTCTC	CCCACCCCAA	ACTAAAAAAA	GAAAAAAAGG	TTTTCTAATG	AAAATCTTTA	180
AAAATACTGT	CAGTATTTTA	AAATTTTCAA	CAGTATTATA	AAAACATTGC	ATCTCCCCAC	240
CTCTAATATG	CATATATATT	TTTCCTGCTA	AAATTGGTTT	CTACAATTGA	GTAAATGGCA	300
AATACATGAA	GCAATGTCCC	TAAATTTTAT	AAAGAAATTA	TATTTAATGC	ACATTCTCGA	360
G						361

- (2) INFORMATION FOR SEQ ID NO:867:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 880 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:867:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGAAAA	60
CAGTCTTTTA	ACCTTTCAAA	ATGCCACAAT	GTGCATTTTA	GATTGCCCTT	AGTTTCCCAA	120
CTCTCAGTAT	ATAGAGACTC	AATTAGAAAA	GAAATGGTGC	TAGTAGCTTC	AACCCACTGG	180
TATGTATTTG	AGGAACTGTT	CCTGGTAGAA	GGCAGTACCG	TGTCCCTTGG	TATTGCTACT	240
GTGCCTGCTA	TGTTACTTCT	TTATGTATAT	GATATGGAAG	TAACTCCTTT	TATACATGTG	300
GAGAAGTTTC	ACAGCTTTTT	TTCATAGTCA	TTGCATTAAA	ATGTCTGCTG	AGGCTGGGTG	360
TGGTGGCTTA	CGCCGGTAAT	CCCAGCACTT	TGGGAGGCCA	AGGTGGGTGG	ATCACCTGAG	420
GTTGGGAGTT	CAAGACCAGC	CTGACCAATA	TGGTGAAACT	CCGTCTCTAC	TAAAAATACA	480
AAAATTAGCT	GGGTATGGTG	GCGCACACCT	${\tt GTAATTCCAG}$	CTCCCGCCGG	GCGACTCGAC	540
CAAAGAGGCC	GGAATTTGGC	CCTCGAAGCC	AAGAATTCGG	CACGAGGGGT	ATTTTTATTT	600
TTANTTNTTC	TGTTTCTCTC	TNGAGTGTAT	AGTGTAGAGG	GGGTTTCTGT	CTTGAGTGTA	660
GGCCTGGAGA	TTTCCCTTAT	ATGGTACAAA	CCAGCAATGA	ATTAAGAGGT	CTCTTTTCTC	720
CAAGATCTAG	TGTTTTGTAC	TAGGAGAACT	CTAAAAAGTA	TCTATTTCAC	TGTAGTGCCA	780
AAGTACAAAT	${\tt TTATTTGGAT}$	TTATTTTTTG	CCATCTTATT	ATATAATATT	TTTCTTTTTC	840
TATGTTGTGC	TTCTTTCCCA	CCTCATCTCT	CCTCCTCGAG			880

- (2) INFORMATION FOR SEQ ID NO:868:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 366 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:868:

GAATTCGGCC	TTCATGGCCT	AGTCATGGCT	TTAGAATCTG	GAGAAGAGTC	TGACTCACTT	60
CTTTCCTGAG	GGGATGCACT	GGGTTTCACA	TCAAGTTCTT	GAGAGGATCC	CGAACGACTT	120
CTCTGCCCCA	GGGGAGTCCG	AGCCACAGTT	TTCTGATCAA	CTGATGATTC	TGACCCGCTT	180
CTTTCTCTCT	GGGGGGTAAG	ACACTTGTTG	TTGAGCTCTG	GGGATGATGG	AGAACGACTC	240
CTCGGCCTAG	GAGTCTGAGG	CAAAGCTTTC	GGTTCTGGGG	AAGAATCACA	TTCGCTTCTC	300
CCTCTAGATG	GCGTTCTAGG	TATATCTTTC	ATTCCAGGAG	AGGACCCAGA	CAGGCTGTGC	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:869:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 529 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:869:

GAATTCGGCC	TTCATGCCTA	GAGGATCTTC	TCCTGACCCA	GCATCGCTCA	TCACAATGAA	60
GAACCAAGAC	AAAAAGAACG	GGGCTGCCAA	ACAATCCAAT	CCAAAAAGCA	GCCCAGGACA	120
ACCGGAAGCA	GGACCCGAGG	GAGCCCAGGA	GCGGCCCAGC	CAGGCGGCTC	CTGCAGTAGA	180
AGCAGAAGGT	CCCGGCAGCA	GCCAGGCTCC	TCGGAAGCCG	GAGGGGGCTC	AAGCCAGAAC	240
GGCTCAGTCT	GGGGCCCTTC	GTGATGTCTC	TGAGGAGCTG	AGCCGCCAAC	TGGAAGACAT	300
ACTGAGCACA	TACTGTGTGG	ACAATAACCA	GGGGGGCCCC	GGCGAGGATG	GGGCACAGGG	360
TGAGCCGGCT	GAACCCGAAG	ATGCAGAGAA	GTCCCGGACC	TATGTGGCAA	GGAATGGGGA	420
GCCTGAACCA	ACTCCAGTAG	TCAATGGAGA	GAAGGAACCC	TCCAAGGGG	ATCCAAACAC	480
AGAAGAGATC	CGGCAGAGTG	ACGAGGTCGG	AGACCGAGAA	GCCCTCGAG		529

- (2) INFORMATION FOR SEQ ID NO:870:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 372 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:870:

GAATTCGGCC	TTCATGGCCT	AATTTGAGCT	TCAAGTCTCC	ATGTGTATAA	TGTGGGGTTG	60
ATGCTGTGGT	GCTCCAAGGT	GTTGGGGGGT	TTTAGGCAGA	GTTCTTATGC	TTAATATAGG	120
ATGGAAAAGT	GTTCGAGCTT	CTTCCCTTTT	CTCTTTCTTC	TCTTCATCTG	ACATGAGCCT	180
GGGGTTCTAC	CTCTTCCAGA	TAATTCATCC	TGGAGCTACT	AATTCTATCT	CCCCATTGAT	240
TTTAGTGTCC	TGTCTGTTTC	TAAATCTACT	GGGCAGTTGG	AGACATTGTC	TTTTGTTCCC	300
TCATCTATCT	TCTGTATCCA	CAGTTGATAA	TTGTCTATGT	TTTTAGTGTG	TTTTAAGGAA	360
ACTAGTCTCG	AG					372

- (2) INFORMATION FOR SEQ ID NO:871:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 574 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:871:

GAATTCGGCC	${\tt TTCATGGCCT}$	AGGTGGTGGG	TGCCTGTAGT	CCCAGCTACT	TGGGAGGCTG	60
AGGCAGAAGA	ATTGCTTGAA	CCCGGCAGGC	AGAGGTTGCA	GTGAGCTGAG	ATCGTGCCAC	120
TGCACTCCAG	CCTGGGTGAC	AAGAGTGAGA	CTCTGTCTCA	AAGAAAAGAA	ACAAAAAATT	180
ATGTACACAA	ATATGGACAG	CACTGGCAAG	AAGTGTGGCA	AAAACACATG	TGGTTCTCTT	240
GTTTTGGGCT	CAGACATGTG	GCTGTGCCAT	TACAGACCCC	CGGGATTTAG	AATCCTCCTT	300
CTGAAAGGCG	TCCTGTGCAC	TCGTGAGCAC	CAGCCTGAAC	AGATGAAAAG	GCTGAGCTGG	360
AGGGGCTGGG	ACACAGCCCA	CCTTGACGAC	AGCTGCTCCT	GGCTGTGCGG	GGGGGTCTCC	420
AGGAAAGGCC	ATTCTCCCAC	TAGGATCGCC	AGGCCCTACT	GAGGCTCAAG	CTCCTTTGCT	480
GTTTGGAATC	TTCCCTCCCC	AGCCCCCCAG	CCTCATCAAA	GGCTGCCTTT	TCCTGTTCAC	540
TGACCACAGC	TGCTTTGACT	CCATTAGCCT	CGAG			574

- (2) INFORMATION FOR SEQ ID NO:872:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 528 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:

GAATTCGGCG	TTCATGGCCT	ACCAGACTAC	TACGGACTCA	TCTAACAAAA	CAGCACCGAC	60
TCCAGCATCC	AGTGTCACCA	TCATGGCTAC	AGATACAGCC	CAGCAGAGCA	CAGTCCCCAC	120
TTCCAAGGCC	AACGAAATCT	TGGCCTCGGT	CAAGGCGACC	ACCCTTGGTG	TATCCAGTGA	180
CTCACCGGGG	ACTACAACCC	TGGCTCAGCA	AGTCGCAGGC	CCAGTCAACA	CTACCGTGGC	240
TAGAGGAGGC	GGCTCAGGCA	ACCCTACTAC	CACCATCGAG	AGCCCCAAGA	GCACAAAAAG	300
TGCACACACC	ACTACAGTTG	CAACCTCCAC	AGCCACAGCT	AAACCTAACA	CCACAAGCAG	360
CCAGAATGGA	GCAGAAGATA	CAACAAATTC	TGGGGGGAAA	AGCAGCCACA	GTGTGACCAC	420
AGACCTCACA	TCCACTAAGG	CAGAACATCT	GACGACCCCT	CACCCTACAA	GTCCACTTAG	480
CCCCCGACAA	CCCACTTCGA	CGCATCCTGT	GGCCACCCCC	AACTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:873:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 611 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:873:

GAATTCGGCC	TTCATGGCCT	AAGCTGCACA	AAACGTAGAA	AGAAGACATA	GCGCCTGCCA	60
GGGGAATAGG	AAATGAGGGC	ACTTACACAT	TAATGTGAAT	TAGTAATTGT	GGTATAGAAA	120
TGTTTTATAG	TGAAAGATTC	AAATTTGCTT	TTCAAGAAAA	ATGCCAAAAG	CTATTTAAAT	180
AATTCGAGGT	TACATCGTAG	GTTTTGATTT	TTCTCAATTT	AAGATACAGA	AATACAGCAA	240
GCCTTAATAT	AAAGTTTCCT	AAAGTTTCTT	CAAGTATTTT	TTAAGGTGGA	GAAATGCAGG	300
AATTGTATAA	CCAGAATTGT	TTCTGCCTTT	AGCTTTTCAG	AACTTGAGAT	GTGGCAGCAC	360
TGGACTGGGT	TTTTTTAAAT	GTTAGGACTA	GGAATGTTTG	CTCTTGTTAA	TTATGAATTA	420
ATTGATTATT	AAGTTTAGAA	TGCATTTTTA	CAAGTATCTA	ACTATCAAAT	TGTGTTTAGT	480
AACTTGAGTG	TATGCACAAG	TTTGATCAAC	AGCAAAATAG	AGTTCTGAAT	TTCTTTTAAA	540
GTGATGATAT	ATTATTTTGT	GAAACTTTGT	GTTTGAAAAT	GTTTATTTCT	GTTTATGGTG	600
TAATACTCGA	G				•	611

- (2) INFORMATION FOR SEQ ID NO:874:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (2) 20102002, 221200
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:874:

GAATTCGGCC	TTCATGGCCT	ACGAGCGGTG	AAGGAGGAGA	CCAAGGAGGA	TGCTGAGGAG	60
AAGCAATAAA	TCGTCTTATT	TTATTTTCTT	TTCCTCTCTT	TCCTTTCCTT	TTTTTAAAAA	120
ATTTTACCCT	GCCCCTCTTT	TTCGGTTTGT	TTTTATTCTT	TCATTTTTAC	AAGGGACGTT	180
ATATAAAGAA	CTGAACTCAA	CATTCAGGTT	GTTTTTTTT	TTGTTTCTAA	GTTTTTGCCC	240
TATTGAAGAT	GACTTCAGAA	AATCCATTCC	CCAGTCATGA	AAATGTACTG	TGCTATTCTC	300
GAG						303

(2) INFORMATION FOR SEQ ID NO:875:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:875:

GAATTCGGCC	TCATGGCCTA	ACGGCAGCGG	CAGCCTCTGA	AAAGAATCGG	GGCCCAAGAA	60
AAGGCGGTCG	TGTTATCGCT	CCCAGGAAGG	CGCGCGTCGT	GCAGCAGCAA	AAGCTCAAGA	120
			TCGAACATGA			180
GCAGCCTGCC	CAAGAAGCTG	GCACTGCTGA	AGGCCCCAGC	CAAGAAGAAA	GGGGCAGCTG	240
CCGCCACCTC	CTCCAAGACA	CCTTCCTGAG	GACGCTGGCC	CCAGTGCAGG	CCAACATCCC	300
ACCCCCTACC	TCCATATGGG	ACCTTGCAAG	TCATCCCACT	TCCTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:876:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 586 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:876:

GAATTCGGCC AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGAGAC	60
TATTTTCCAT TTCACACAG	AAATCTTTGA	TTATTCAGTA	AAAAGAGGAA	ATATAAGAAA	120
AAAAATCAGA CTAGTCTGGC	CAACATGGTC	TAAAAATACA	AAATTAGCCA	GGCATGGTGG	180
CGGGCGCCTG TAATCCCAGC	TACTTGGGAG	GCCCAAGCAG	GAGAATCGCT	TGGACTCGGG	240
AGGCGGAGGT TGCAGTGAGC	CGAGATCATG	CCACTGCACT	CCAGCCTGGC	AGACAGAGCA	300
AGACTCCCTC TCCAAAAAAG	AAAAAATT	AAAAGAAAAA	AAAGGCCGGG	TGCAGTGGTT	360
CGGCCTCCCA AAGTGCGGGG	ATTACAGGCG	TGAGCCACCA	TGCCCGGCCA	CTTTCTGTAT	420
TTTTTAATAA ATAAGAAATA	CACATTTAGT	AGTAGTTACA	AAGATCTGTA	GGCCGTAGCA	480
AATATTCAGT AACTGGAAGA	TGCCAATGAA	CATTGTTGGG	TAGTATTTAA	ATAACAAAAT	540
GTTCAAATAT TTGACAAGAT	TAACAACACT	ACACGGCCTT	CTCGAG		586

- (2) INFORMATION FOR SEQ ID NO:877:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 445 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:877:

AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGTAA	60
TTATGTATTT	TCTAGCATTT	GCCTCAAGGA	TTGAAATTTT	TTTTTTTACT	120
GGTAGAATTC	TTTATTTAAA	AAGTCAGTTG	AATATCAAAA	CTATTTGATA	180
TGGAATATTA	TTCTCTAGTG	TAGAAGAAAA	CATTTTCTGC	TTACAAAACA	240
ACTCTAAAAT	AGGGGTTGGC	AAACTTTTCT	TAAATAAAAG	GCCAGATGGT	300
GGTTTTGTGG	GCCATGTGTT	GATAACTATT	TTAGGTTTTG	TGGGCTACGT	360
TCTCCCATTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTTTC	420
	TTATGTATTT GGTAGAATTC TGGAATATTA ACTCTAAAAT GGTTTTGTGG	TTATGTATTT TCTAGCATTT GGTAGAATTC TTTATTTAAA TGGAATATTA TTCTCTAGTG ACTCTAAAAT AGGGGTTGGC GGTTTTGTGG GCCATGTGTT	TTATGTATTT TCTAGCATTT GCCTCAAGGA GGTAGAATTC TTTATTTAAA AAGTCAGTTG TGGAATATTA TTCTCTAGTC TAGAAGAAAA ACTCTAAAAT AGGGGTTGGC AAACTTTTCT GGTTTTGTGG GCCATGTGTT GATAACTATT	TTATGTATTT TCTAGCATTT GCCTCAAGGA TTGAAATTTT GGTAGAATTC TTTATTTAAA AAGTCAGTTG AATATCAAAA TGGAATATTA TTCTCTAGTG TAGAAGAAAA CATTTTCTGC ACTCTAAAAT AGGGGTTGGC AAACTTTTCT TAAATAAAAG GGTTTTGTGG GCCATGTGTT GATAACTATT TTAGGTTTTG	AAAGAGGCCG GAATTTGGCC CTCGAAGCCA AGAATTCGGC ACGAGGGTAA TTATGTATTT TCTAGCATTT GCCTCAAGGA TTGAAATTTT TTTTTTTACT GGTAGAATTC TTTATTTAAA AAGTCAGTTG AATATCAAAA CTATTTGATA TGGAATATTA TTCTCTAGTG TAGAAGAAAA CATTTTCTC TTACAAAACA ACTCTAAAAT AGGGGTTGGC AAACTTTTCT TAAATAAAAG GCCAGATGGT GGTTTTGTGG GCCATGTGT GATAAACTATT TTAGGTTTTG TGGGCTACGT TCTCCCCATTC TCTCTCTCT TCTCTCTCT TCTCTCTC

PCT/US98/06956

	TGTGTGTGT AGCGGCGCTC TCGAG	445
	(2) INFORMATION FOR SEQ ID NO:878:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 586 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:878:	
	GAATTCGGCC AAAGAGCCGG AATTTGGCCC TCGAAGCCAA GAATTCGGCA CGAGGGGGTC TCCATTCCCC GAGAAGCCAG GGGCAGGGTG GGATGGGAA GACCAGGAGC AGAGTCGAGC CTCACAGAAG CCAGCGCGG TCTCTGCTCA GCACCCCAGC CGGGGTCTTG GACCAGGGT AACAGCCCCA GTTCATCCC ACCCCTCTCA GAGCCTCAAG AGGGGTAGCT CGGCTGCCGG CGCCTTTGCC ATTCTTTGA GCTTGAAGTT AACTCTCTTA GAGTCTAACT TTGGTTCATT TCTGCACAGG TACAATAGAT GACTTTATTT ATATATATAT TTGTCTGTAA GAATTATTTT AAGTAAATCT TACAGTGGAG TATATTTTTT AAGAAATGTAC ATTACCCCCT TATTATTTTG CGTCGGATTC CTCGAG	60 120 180 240 300 360 420 480 540
	(2) INFORMATION FOR SEQ ID NO:879:	986
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:879:	
	GAATTCGGCC AAAGAGCCGG AATTTGGCCC TCGAAGCCAA GAATTCGGCA CGAGGGGAAA ATCTTGTCCT AAAAATATAT GAGTTTGGGG GTAAGGGGTG GGATAGCCAA GCAAAATCAG TAATTATTTT AAAATGAACA TATGAATTTT TATTTAACTTT TAGTTAAATA CAGATTTTAC AACGAGGTCA GCATAAGCCT AAATCTATAT AGAGGGCTAA CTCAGGCATT GTCTTGTTTA TTTGTAGACT GGATTAAAAA CAACCTGTCC TGTTTTGTCA GTTCCCAGCT TCTTCGTTTA GAATAAATTA GACCAAAAGA AGAAACGTGC TTGTCTCTGT ATACCCGCAG AATGAAGTTA CTGTTGTTAA AACCGGATT TTTCATTTTA CTAGTTCC CTCCCT CGAG	60 120 180 240 300 360 414
	(2) INFORMATION FOR SEQ ID NO:880:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 402 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: GDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:880:	
	GAATTCGGCC AAAGAGGCCG GAATTTGGCC TCGAAGCCAA GAATTCGGCA CGAGGGTAAT	60

GTGTTTACAG GTAGAATTCT TTATTTAAAA AGTCAGTTGA ATATCAAAAC TATTTGATAT TCTTCAGACT GGAATATAT TCTCTAGTGT AGAAGAAAAC ATTTCTGCT TACAAAACAA ATAGTAAATA CTCTAAAATA GGGGTTGGCA AACTTTTCTT AAATAAAAGG CCAGATGGTA ACTATTTAG GTTTGTGGG CCATGTGTG ATAACTATTT TAGGTTTTGT GGGCTACGTA TGGTGTCATT CTCCTATTCT CTCTCTATCA CCTACCCTCG AG	180 240 300 360 402
(2) INFORMATION FOR SEQ ID NO:881:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:881:	
GAATTCGGCC AAAGAGGCCC GAATTTGGCC CTCGAAGCCA AGAATTCGGC ACGAGGGGCC GTTTTTTTTT TTTTTTTTT TTTTTTTCNNG NNAGGCTTTC CCTAGGTGAT TTTTAATTGC TATTATAAAAT AAATATCCAT TTTTCCCATA AAATATTGCT ATATGTTAGT ATATTAATCT TGTACTGTTA CCTTTTCAA CTCTATTGGT TCTGATAGCT TGTCAGTTGT CTACCTTTCA TCTTCTAGGT AAATATTCT TACAAATAAT GAGATTTGCT CCTACTTTCC AATTTATCTC ATTACTTTTA CTNNTCTTAC TGCACTGGCT AGGACACCAC TACCTTCCG AG	60 120 180 240 300 352
(2) INFORMATION FOR SEQ ID NO:882:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:882:	
TTTTTTTTT TTTTTACTT AAAAATAGTT GTATTATAT TCCACAATTT GTTCAAATAC IGGTTTTCTT ATAAACTTC TACAGGATGT TTTTAAACAA ATTCTTCACA TTGTGTTTTG ACTAAAGGGA TGGGAATTT CAGGGAAATA GTTCTGTGTA TTTTTAATAG CTTAATTTGT ACTAAAGGGA TGGTAGGTGG TCACATGCAG TCCATGTGGG ATTCTAACTT GACATTTAGT GAGTTTTCTG ATGTGGACCA TCCCTTTGAT GCTGAAGGTA ATGCATCTGT TGAAAGAAGT GACTGTAGAT TTGGATTACT GCTCTCTGCA TCTCCCTCTT TTCTGCTCGA G	60 120 180 240 300 351
(2) INFORMATION FOR SEQ ID NO:883:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

120

180

GAATTCGGCC TTCATGGCAA GAAGGAGNCT TAGCATCAAA CTTTGGAAAG GGAAGCCAGA GAAAAAGGTA GAATGGACAA GTGACACTGT GGACAATGAA CACATGGGCC GCCGTTCATC

CAAATGCTGC TGTATTTATG AGAAAACTCG GGCCTTTGGC GAGAGCTCCA CGGAAAGTGA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:883:

TGAGGAGGAA	GAAGAGGGCT	GTGGCATACA	CACTGTGTAC	GTGGCCACCG	CAAAGGACGG	240
GTTNTGCAAC	CCTAGGACCG	ACCCCCACCA	CCCTTCCCCA	GCTCCTGACC	NTTCCCAGCC	300
CCCTCCAGGG	CCAATGCAGC	ACTAAATCCC	TCTCTCCTCC	AGCATTCCTG	TGTCTGTCTG	360
GCCCTAAATG	TATCCATGTG	GCTACTTCTC	CAGCCCCCTC	CTTCCCTNTC	TTCTGCCTGA	420
TAGAGGGAAG	AGGAAGAGGA	GGACGAACAG	AGATCCTGAA	ATTCTGACTT	GCTGCTATTC	480
CAGAACCCAG	CCTCCTGGGT	TTCCCCAGTC	CTCATTTTTC	CTCCCAATAC	CCACCCTTCT	540
CTCTCGAG						548

- (2) INFORMATION FOR SEQ ID NO:884:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 446 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS; double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:884:

GAATTCGGCC	TTCATGGCCT	AAAAAATACA	AAAAATTAGC	CGGGCGTGTT	GGCGGGCGCC	60
TGTAGTCCCA	GCTACTTGGG	AGGCTGAGGC	AGGAGAATGG	CATGAACCTG	GGAGGCGGAG	120
CTTGCAGTGA	GCCGAGATCG	CGCCACTGCA	CTCCAACCTG	GGAGACACAG	CGAGACTCCG	180
TCTCCNAAAA	AAAAAAAA	AAAAAAACAC	ACTTGTCTTA	CAAAGACTAA	CAAAAGATAC	240
TAAAATAAAA	AACTTTACAG	CATCATTAGA	AAGCGAACAA	AATCCTAAGA	TAGATACATT	300
TATCTTTCTT	GTTTTAGAAC	TTTTTCTGTG	TAATGGAATG	GAAATGCTTA	ATCTTGTTTC	360
AATGTTTTCA	${\tt GTGTTTGTGC}$	TTTGTCAAAT	TGAGGTTGGA	TGTTAAAGCC	CTTACTACTG	420
TATTATACAA	AGCAGCGAAC	CTCGAG				446

- (2) INFORMATION FOR SEQ ID NO:885:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:885:

GAATTCGGCC	TTCATGGCCT	AGCCGGCGCC	GCCGNGTCTT	CCCGGTCTCC	TTTCCCGGCC	60
GCACAGGGTT	TTATAGGATC	ACATTGACAA	AAGTACCATG	GAGTTTTATG	AGTCAGCATA	120
TTTTATTGTT	CTTATTCCTT	CAATAGTTAT	TACAGTAATT	TTCCTCTTCT	TCTGGCTTTT	180
CATGAAAGAA	ACATTATATG	ATGAAGTTCT	TGCAAAACAG	AAAAGAGAAC	AAAAGCTTAT	240
TCCTACCAAA	ACAGATAAAA	AGAAAGCAGA	AAAGAAAAAG	AATAAAAAGA	AAGAAATCCA	300
GAATGGAAAC	CTCCATGAAT	CCGACTCTGA	GAGTGTACCT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:886:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 388 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:886:

GAATTCGGCC TTCATGGCCT TCAACATTGA GACAATGTAG TTTAGCTAAA ATTTGTTTCA CAGATGTGAA TGCCGGCTTT AAGCACTTTT TTTTTTTTT TTCAGGCTGG AGTGCAGTGT	AGATATATTA AAGAAGTTGC TTCCAGAAGG TTTTTTTTT	TGGTATAAAA TTTTGTTTTT GTTCTTGGGA TTTTTTTAGA	TGAAGCATTT AGTGTACCTT GAAAACACTG GATGGTTTCT	GCACGAACTT GAGTTCAACA GAGAAGTTCT TACTCTGTTG	60 120 180 240 300
TTCAGGCTGG AGTGCAGTGT AGTGATACCC CTGTCTCAGC	TGCAATCATA	GCTCACTGCA	GCCTTGACCT	CCTGGCCTCA	360 388

- (2) INFORMATION FOR SEQ ID NO:887:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 364 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:887:

GCCCCAGTCT AAGGCATTTA AAATTAAACA GCTCTTCAAC GCCCCAAGTT A'	TTTCATCAG 60
GCTAAGAACT TCTCCGAGAA ACGCACAAGA AGGCAGGCAA ACAGGTGGGT AG	GGTGAGAGG 120
TCACGGGGCT CCATCTGCAA GCTCCATCTA CAAGGCATCA ATCTGCGTTG TO	GGCATCAAC 180
GTTAAAATGT TCTACAGCTT AGGGATCTTC TTGAAGCAAG GTTCCAAGCA CA	AAAACTAGT 240
ATGACCGGAG GCTCAATTTA GAAGATGCAG CATCTGAAAA CCTTTACCCC AG	
GGGTGCCTGC TGGCATTCAT GGGCTCTGGA ACAAGCATTT ATTCAAAGCT GA	
CGAG	364

- (2) INFORMATION FOR SEQ ID NO:888:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:888:

GCACCCCCAA	ATGCCAGCCT	CTCCTTTCTT	CCCATCCACC	AGTATACTGC	GGGGCCATTT	60
			TGGTGGGATA			120
CCACTCACCC	CATGCATCTC	TGTCCTGCCC	GTCAGTGCTG	GGACGGACAG	CAAGGGCAAG	180
CCCAGTGTCT	GGCGGATAGG	TGGGTGGGAA	CAGAGAGGGG	AGAATGCCGT	CCTAAGCTTC	240
			CTGCCTGGGA			300
			AGCCAGCATC			360
CGCCTTTGTC	CTCATTTTGA	GCTGCAAGCT	GGGTCAGCGG	CTCTGAAGCC	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:889:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 349 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:889:

GTAGGCCATG AAGGCCGAAT	GGAAAAAGTC	AGTTAAAGAG	GACTCAGTCC	CCACAGGTGC	60
GGAGGAGAAT GTGGTGTGTG					120
AGCCTTACAA ACAGTGGACC	TCAACGAAGG	AGATGCTGCA	CCTGAACCCA	CAGAAGCGAA	180
ACTCAAAAGA GAAGAAAGCA	AACCAAGAAC	CTCTCTGATG	GCGTTTCTCA	GACAAATGAC	240
ATCAGACTCC ACAGAAAAGA	CTATCACACC	GCCAGAGCCT	GAACCAACAG	GAGCACCACA	300
GAAGGGTAAA GAGGGCTCCT	CGAAGGACAA	GAAGTCAGCA	GCTCTCGAG		349

- (2) INFORMATION FOR SEQ ID NO:890:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 719 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:890:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAGGATGCT	CTGGGTTTGC	TGTAGTCGTC	60
TGTTACTGGT	CNTGTTAGGA	GGAGGGCCAG	GGGGACCCCC	ACCTGGGGCA	GTCCCTTCTG	120
TCCCTTCAGC	AGGTGGCTGA	GCTGGAGCAG	ACATTTTTCT	GACAGAGAGA	GTGAGGGTCT	180
		GCGAGACACC				240
		GCGCCGACTA				300
					CGGCCTCCCA ~	360
		TGAGCCACTG				420
GTTTATTTAC	CATGTTTCTT	TCACTGTGGG	GTCTCTGTCC	TTGCTGTTTT	GTTTTTCTTT	480
TAACTTCTTT	TGTTATTTAG	GAAGGTTTAT	ATTAATATTT	TAATTCTACA	TTGGATAATT	540
CCTATATCAA	AACTATTGTT	GACAATCAGT	TACAGATGGA	ACTTCGTCTA	CTCTTTCTCC	600
CCTTCTCACT	CCTGCTCTTT	CTCCCTTTCT	CACTCCAGCA	GTTGACTAGT	CTCATTGAAA	660
AAACAAATTG	GGGCCGGCCA	GGCATGATGG	CTCATGCCTG	TAATCCCAGA	CAACTCGAG	719

- (2) INFORMATION FOR SEQ ID NO:891:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 453 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:891:

GAATTCGGCC TTCATGGCCT	AGATACTCCG	CTGAAGATCT	GATGTCACCC	CAAATGCATG	60
GCTCCAGCCT CAGTTCAGCT	TTCCACACTG	CTTGCAGAAA	TTCCTTCATT	TATCTTGAGT	120
TTCTCCTCTC ACTCCCATGG					180
GATGAGAATA GAAGCCATAG					240
GGGCATCTCT CGGGACAACT					300
CCACAAGAAG CGGAAGTATG	AGTTGGGGCG	CCCAGCTGCC	AACACCAAGA	TTGGCCCCCG	360
CCGCATCCAC ACAGTCCGTG	TGCGGGGAGG	TAACAAGAAA	TACCGTGCCC	TGAGGTTGGA	420
CGTGGGGAAT TTCTCCTGGG	GCTCAGACTC	GAG			453

- (2) INFORMATION FOR SEQ ID NO:892:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:

GAATTCGGCC	TTCATGGCCT	ACCAGCCTCT	GGGCTGAGGC	AAAGACCTCT	GAGGCCCCGT	60
CCACCCAGGA	CCCCTCCACC	CAGGCCTCCA	CTGCGTCCTC	CCCAGCCCCA	GAGGAGAATG	120
CTCCGTCTGA	AGGCCAGCGT	GTGTGGGGTC	AGGGACAGAG	CCCCAGGCCA	GAGAACTCTC	180
TGGAGCGGGA	GGAGATGGGT	CCCGTGCCAG	CGCACACGGA	TGCCTTCCAG	GACTGGGGGC	240
CTGGCAGCAT	GGCCCACGTC	TCTGTGGTCC	CTGTCTCCTC	AGAAGGGACC	CCCAGCAGGG	300
AGCCAGTGGC	TTCAGGCAGC	TGGACCCCTA	AGGCTGAGGA	ACCCCTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:893:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 467 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:893:

AACAGGAGAT	GGACAAGCTG	AAGGAGCAAT	ATGATGCTGA	GTTGCAGGCC	CTGAGGGAGA	60
GTGTGGAAGA	AGCAACCAAG	AATGTCGAGG	TCTTGGCGAG	CAGGAGCAAC	ACTTCAGAGC	120
AAGACCAGGC	GGGGACTGAA	ATGCGCGTGA	AGCTTCTGCA	GGAGGAGAAT	GAGAAGCTGC	180
AGGGAAGAAG	CGAAGAGCTG	GAGCGGAGAG	TTGCTCAGCT	TCAAAGGCAG	ATCGAGGACC	240
TGAAAGGCGA	TGAAGCCAAG	GCGAAGGAAA	CGCTGAAGAA	GTACGAGGGA	GAAATACGAC	300
AGTTAGAGGA	GGCCCTTGTG	CACGCCAGAA	AGGAAGAAAA	AGAAGCTGTG	TCAGCCAGAA	360
GGGCCCTGGA	GAATGAACTG	GAGGCTGCTC	AGGGAAATCT	GAGTCAGACT	ACCCAGGAGC	420
AGAAGCAGTT	GTCTGAGAAG	CTCAAAGAGG	AGAGTGAGGC	GCTCGAG		467

- (2) INFORMATION FOR SEQ ID NO:894:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 315 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:894:

GAATTCGGGC	TTCATGGCCT	ACTCAGCTTT	CCTGGTCTCC	CATCTGAACT	GCTTCTTTGT	60
GCACCTCTTG	TTCTTTCTCT	TGGCTCCCAG	TCTTGATTCC	TGTGATCACT	CTTGCATCAC	120
TAATTGCACA	AGTGATTTCA	GGTGCAATTC	TGATTAGCCT	GCGTCCACAC	AGTGATCGAT	180
GATCCTATGT	GCCTAGAAAG	GACACTGTGT	GCTGCTCATG	ACCTGCAACA	GGAAAAAAGC	240
CATTTCTTGT	TAGCAGTGTA	AGAACCTTAG	AGCAAAGGAG	TTGACCTTCT	GATTGAATAT	300
AAGCACAACC	TCGAG					315

- (2) INFORMATION FOR SEQ ID NO:895:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 302 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:895:

GGGCTTAGTT AGG	SAGCTATG GCTAAACATC	ATCCTGATTT	GATCTTTTGC	CGCAAGCAGG	60
CTGGTGTTGC CAT	CCGGAAGA CTGTGTGAAA	AATGTGATGG	CAAGTGTGTG	ATTTGTGACT	120
CCTATGTGCG TCC	CCTGCACT CTGGTGCGCA	TATGTGATGA	GTGTAACTAT	GGATCTTACC	180
AGGGGCGCTG TGT	GATCTGT GGAGGACCTG	GGGTCTCTGA	TGCCTATTAT	TGTAAGGAGT	240
GCACCATCCA GGA	AGAAGGAC AGAGATGGCI	GCCCAAAGAT	TGTCAATCTG	GAGGAACTCG	300
AG					302

- (2) INFORMATION FOR SEQ ID NO:896:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 473 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:896:

GAATTCGGCC	TTCATGGNCT	ANTCTCATTT	NAAATATATC	CTTACTGAAA	CATCTGGAAT	60
AACGTCTGAC	CAAATATCTG	GGTACAGTGA	TCCAGCCAAG	TTGAGACATG	AAATTAATCA	120
CCATGGCCTA	CATTTTTATC	TGTTTGGCTG	CAATTCTGTC	AAAGGCTTCT	GCTCTTCATA	180
ACATTTCACT	CACTAGCTCC	ATGAAGCCAT	ATGATACAAA	CCTTGCCTGT	GTAGCCTTCA	240
CTTTTTTCCA	AAAGAAGTCT	ATTAAATGCC	AATCAAGTAT	CTTCTCCTCC	AAGCTCAGTA	300
GCTCGGGCCT	TCAACAGCTG	TTCCCCATTC	CGATCCATCT	CCCTGAGCTA	CCCTGGCATT	360
CTTATCAGGA	CACTGGAGGA	ATCTATGTAT	GTGCCTCTAA	AGATTCAGCA	CCCAAACATG	420
ATAGAAATCA	CTGTGTTCAC	ACTGTATCTC	TATATCTGCC	CATCCCGCTC	GAG	473

- (2) INFORMATION FOR SEQ ID NO:897:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 594 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:897:

GCTCGAGTGA	AGTGGTATCT	CATTGTGGTT	TGGGTTTTAA	TTTTATAATA	TTTTAATTTT	60
TAAAATCAAA	AGAATATACT	GGGGCTGGGG	TGGTGGCTCA	AGCCTGTAAT	CCCAGCACCC	120
TGGGGGGCCA	AAGGGGGTGG	ACCACCTGAG	TTTATGAGTT	CAAGACCAGC	CTGGCCAACA	180
CGGTGAAACC	CCATCTCCAC	TAAACATACA	AAACTCAGCC	GGGTATGGTG	GCAGGCACCC	240
GTAATCCCAG	CCTCTCAGGA	GGCTGAAACA	GGAGAATCAC	CTGATCCGGG	AGGTGGAGGC	300
TGCCATGAGT	CAGAATCACG	TCACTGCACT	CCAGCCTGAG	AGGAGACCCG	TACAAAAAA	360
АААААААА	ATATATATAT	ATACACACAC	ACACACACAC	ACAAGGATTT	TAGATTTGAA	420
AATGATGTTT	TTTACTCATT	TCAAAATGTA	CTGTAACCTT	TCTTTGGTTC	TTACTGTTTT	480
CATTTAACTT	TCTCTGTTTT	CAAGAAAAAT	TGTCTTTATT	GACATTTGTA	AAAAAGAATG	540
TGTTTTGCCC	AGTTATTAAG	TATTTTATTT	TTATGCAATT	TCAGAACACT	CGAG	594

- (2) INFORMATION FOR SEQ ID NO:898:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 302 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:898:

GAATTCGGCC	TTCATGGCCT	ACTGTACATT	TTTTTTAAAG	TTTGTTGAAA	AGAATATTGT	60
CTTATTCTAT	AAAACATTTC	AAACCTAGTT	AGAGATTTGT	AATCAAAAAA	CATTTGCGCA	120
GAAAGCAGCA	CTTAGGGCTG	CCTGTTCTAT	ACCCTACAGT	CAGACAGGAA	AAGAACTGAA	180
AATGGCACCC	TTCTGACATT	CTGAGGCAGC	TGGACTGGCA	GCCAAGTAAA	GGAGAGTGAT	240
GAGGTGGTGT	GGGGAGGGTG	GGGAGGCAGC	GCGAGGGTGC	TCTCCACAGG	GTAGGTCTCG	300
AG						302

- (2) INFORMATION FOR SEQ ID NO:899:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 475 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:899:

GCGGCCTTCA T	GGCCTAGTG	CTTGTCAGTT	TGGAAAGTCA	CAGGGAGTTT	ACCATTCTAT	60
AATTAGAGTA G	GAGGAAAAT	GAGAACCCAC	TGGTAGAAGA	AGAAGCAACA	GTCTTCTAGG	120
GTCTGGCATT T	GATGAGATA	GGTATTCAGT	TACTGTGCAT	TTCCATTGTT	TTTCCATGGC	180
AGAACATACG G	CAGAGATTT	GGGAACTCGC	ATGCCTGAAG	CCAGGTTATT	CTTATGTTCT	240
GTAACTATGT T	GCTCGCAGG	GCTGTTGTTG	TCAGAGTAGT	GAGTTGTGCC	CCAGACAAAT	300
GGGGTGCTGG T	CTGCTCCCA	CAAATCTTTA	TCCCAGTCTT	CATCGCAAGG	AGGGCACTGC	360
CAAGTGCTCT C	AGCCAGAGT	CTCTTGTCTA	AGGCTCCTGG	TTTGGTTGAC	AACATCTTGC	420
TCAATACAAC T	TCTGTCATC	ACAGCTTGAG	ATATGATGAC	TAATTTCAGC	TCGAG	475

- (2) INFORMATION FOR SEQ ID NO:900:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 507 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:900:

GAATTCGGCC	TTCATGGCCT	ACAGCTGCCT	TTTTCTTTAA	AGGGGTTCTT	GTCTTCTGGA	60
ATTCCCTTTA	CTAGAGGATC	CTCTCCAGAA	CGTTCTTCAA	TATAGTTCTT	TATTTCTTCA	120
GAACATTTAG	ACACTTGTTG	TCTCTGCAAC	TTCACTTCTT	TGCGAAGCTG	CTCAACTTCC	180
ATTTTCAGTT	TTTCCTTCTC	TGGCAAATCT	TCGATGTGAA	GGGCAGGCAT	TTTCGCCCCA	240
GAACCGGGCT	CAGGCTAGCT	CTGGCAGCGG	AGCCGCTGGA	AGAGCGGCGA	AGCTCGGCGC	300
GTCCCGAAAC	AACTGAAGGC	CTGGCCCGCC	GCCCACCCGC	GCAGGATGTG	ACTGCAGCCC	360
TGCTGCGGTC	CCCAGCTCCC	CGAGGGCTTG	GCTTTCTCCG	GGACGCTTGT	CACGCCAGCG	420
			GCCTTTTCTC	AAGTCCCTGC	AACCCAGGAG	480
GCCTGCCCGG	GTGCTAGTAG	GCCATGA				507

(2) INFORMATION FOR SEQ ID NO:901:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 495 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:901:

GAATTCGGCC	TTCATGGCCT	AGTTTGGATT	TTCATATTAG	GGATACTCAA	CTGGTATTAT	60
TATTCTGGCC	CCTGCAAATT	TTTCAGTAGG	TCCCCTAGTA	TGTCATGCCA	GGGACTATGN	120
GAGTTCCTGG	GAATAGCACT	GTAANACATT	CTTGAGTGGG	TCCTTGACTC	CATTGAGTTT	180
ATAATCTCGT	AGGAGGAAGG	CTATGAAGAA	TTCTAATAAA	GCAAAGCAAG	CAATCACAAC	240
AAACCTTCCT	CTTTAACTTA	TCAAAAATGG	AAACTTTGAA	GAGCTGCTCT	TTAATAAATC	300
ATTGGAAAGC	ACCAGGACCC	AGGTGTTTTG	ACTCAGCCTC	ATTTCAGACT	GAGATCTGAG	360
GCCATGATAA	CTCATGTGCC	TATATATGCT	GATAATCACC	ATTACCTATA	CCATTCTTTA	420
CATTCTCTCA	TCTACACAAT	CATCTTCAAC	TCTCTCTCAT	CCACTTCAGC	GATTGAATTC	480
TTTACCGGCC	TCGAG					495

- (2) INFORMATION FOR SEQ ID NO:902:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:902:

GAATTCGGCC	AAAGAGGCCT	AGAATTCCAG	ACCTAGCTCA	ACCCATGCCT	CCTTTCCTTC	60
CTTCCCTCCT	TCCTTTCTTT	CTTTTTCCTT	TTCTCCTTCC	CTCCCTTCTC	CCTTTCTTCC	120
TTCTCTCCCT	CTTTCTCTTT	CTCCCTTCTT	CCTGCTCTTC	CTTCCTTCCT	CCCTCCCTCC	180
CCTCCCTTCT	TTCCTTTCCT	CCCTCCCTTC	CATTCTTTCC	TCCCCCACCC	CCCGTTTCTT	240
CTCTTTGGAG	AGATGTACAG	CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:903:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 410 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:903:

GAATTCGGCC	AAAGAGGCCT	AAATGAGAGC	TGAGTGAAGT	GGATGCCCCT	TATAAAAACA	60
TCAGATCTCG	TGAGAACTTA	CTATCACTAG	AATAGCATGG	GGGAACCACC	CCATGATTCA	120
GTTACCTGCC	CCCAGGTCTC	TGCCACCACA	CATGGGGATT	ATGGGAACTA	CAACTCAAGA	180
TGAGATTTGG	GTGGGGACAC	AGGCAAATTA	TATCAGCTGT	TGTGCTCATT	AGTTTGTATA	240
TCATCCTTGG	CTCCTTTAGC	ACTATAAGGG	CAGGATTGAG	TCCTTGCAAC	AGAAACCATT	300
CAGCCTGCAA	AGCTGAACCT	ATTTACTTTC	TGACCCTTTA	TGGAAAAGTT	TACTGATCTC	360
TGGACTAGAC	AGTTTTTTAA	AAATGACATC	TTATGACCGG	GATTCTCGAG		410

(2) INFORMATION FOR SEQ ID NO:904:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:904:

GAATTCGGCC	AAAGAGGCCT	AGCCGAGACT	CTGTCTCAAA	AAAAAGAAAA	AAAGCTGCTT	60
TGGGTCTTAT	GAGGGAGGG	ACTGGGAATC	TAGGTGTTTC	AAGCGCCCCA	GGCGATTCTT	120
AAGGTCACAC	AAGCTTGGGA	GACACTTCAT	TAAGCAAAAT	CTTTTGGCCG	TTTTGTTCTG	180
GTTGAGCCTC	AGTGTCTATT	CATTGAGTGG	TCACCAAGAG	TTTGGGGTGG	ACTGATCATC	240
AGCATTTACA	GGTTTGGAAA	TTGAATTTAG	TTTTACTACT	CAGAGCTTAT	TAGACTTGAG	300
CAGATTTAAA	CGGAAGGACA	CTCGAG				326

- (2) INFORMATION FOR SEQ ID NO:905:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 410 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:905:

		AGGAACTGTT				60
		GCTGGGGGAA				120
		GAGCTTGCCT				180
		GAAATACTGA				240
		CAAATTTAAA				300
		TTGACTTTGT			TTTGGGACTG	360
GGCATGGTCG	CTCACGCCTG	TAATCCCAGC	ACTTTGGGAG	GCATCTCGAG		410

- (2) INFORMATION FOR SEQ ID NO:906:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 498 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:906:

TGAGTGGCTG GGACTACAGG TGGATGCCTC CATGCCTGGC TAATTTTTTG TATTTTAGTG	120
GAGACAGGGT TTCACCGTGT TGCCCGGGCT GGTCTTGAAC TCGTGAGCTC GGGCAATCCA	180
CACTCCTTGG CCTCCCAAAG TGCTAGGATT ACAGGTGTGA GCCACTGCAC CCGGTCGAGG	240
TACAGTTTTG AAGTTCATGC AAATCTCATC ATTTGCTCTT CTGCAACAAA ACATTTTCTT	300
TCAACTTATT TTGCCTGTGT GAAGCTCAGT GCTTTAACTC ATATATGGAG TTATCTTCTT	360
CCCTCAGACT GGAGACGTTG GTGAAATTGG GGCTAGACTG AAGATGTCTA AGGTGGCTTG	420
ATTGACAAAG GTCTCTCCTC ATCCCCAAAA TAAATAACAT TTTTTCATTT ATAATAGTAA	480
TACACCAGTC GACTCGAG	498

- (2) INFORMATION FOR SEQ ID NO:907:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 481 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:

GAATTCGGCC	AAAGAGGCCT	AAACTGGTGC	TGGTTTCACA	TCACGACAGC	AACGGGATTC	60
TTTTGCTTTG	AAAATGTTGC	AGTCCACCTG	TCCAACTTGA	TCTTCCGGAC	ATTTGACTTG	120
TTTCTGGTTA	TCCACCATCT	CTTTGCCTTT	CTTGGGTTTC	TTGGCTGCTT	GGTCAATCTC	180
CAAGCTGGCC	ACTATCTAGC	TATGACCACG	TTGCTCCTGG	AGATGAGCAC	GCCCTTTACC	240
TGCGTTTCCT	GGATGCTCTT	AAAGGCGGGC	TGGTCCGAGT	CTCTGTTTTG	GAAGCTCAAC	300
CAGTGGCTGA	TGATTCACAT	GTTTCACTGC	CGCATGGTTC	TAACCTACCA	CATGTGGTGG	360
GTGTGTTTCT	GGCACTGGGA	CGGCCTGGTC	AGCAGCCTGT	ATCTGCCTCA	TTTGACACTG	420
TTCCTTGTCG	GACTGGCTCT	GCTTACGCTA	ATCATTAATC	CATATTGGAC	CCAGACTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:908:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 764 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:908:

GAATTCGGCC	AAAGAGGCCT	AGAAACAATG	GTTTTCAGAC	ACTGAAAGTT	CATAGTACAG	60
GACTGTGATC	TCTGCGAGAA	GGGGGAATAA	TGAGGTGAGT	CCAGTGATTG	CTCAGGCGAA	120
TGGCCTGGAG	${\tt GCAGTTTCTA}$	GGCAGCAAAG	CAGGGAGAGG	GAAGCCAGAG	ACCAGTGGTC	180
CTGCTGTGTT	${\tt GAGGAGATGG}$	AGATCAGTGT	CACCGGAGGC	CAAGGTGAGT	AAGTGAGAGG	240
AGAGGAGGCA	GCAGCACACA	GACAGAGAGT	GCTGTAGATC	TGCAGTGGGT	CCCCTGGAGT	300
$\tt CCTTGGTTGA$	${\tt GTGAAGGTGT}$	TAGAAGAAAC	TACTTAAGCC	AAGAAATGAG	TAACTGGAAA	360
TTAGTAGAGC	AAATAATTTA	CAGATCATCT	ATGGGGCTGG	GAAAAGTTTG	TGTTTCCACT	420
AGCCAGAGTA	GAAATAACTC	ATAATGCATG	GGTCATCAGG	TGGAGTCCTC	CAACAGGTGT	480
TGCCTTAGTA	CTGAGGTCAA	ATTGTCCCTA	GACCAAAGGC	TTCTTTGGAC	TTCCCCTAAC	540
AAAGCTTAAA	GACAAGCCTT	GGAAGGATCA	AACTAATTTC	AAGAAACTTA	ACTGTGAATC	600
AGAATAAAAC	CCAATACCAT	TTATAGGAAT	ATAACAAAAT	CCATCAACAN	ACNACATAAC	660
ACTCATAATT	ACCAACATTC	AGTAAAAAAT	TACTGGAAAC	AGAGAAATAT	AAATTATGGC	720
CCATAATTAG	GAAAAAAGGG	TAATCATTAG	AGGTAGAACT	CGAG		764

- (2) INFORMATION FOR SEQ ID NO:909:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 157 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

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GAATTCGGCC AAAGAGGCCT ACTAAGGACT TGTTTCGGAA GGAGCTGACT GGCCAATCAC AATTGCGAAG ATGAAGGCTC TGTGGGCCGT GCTGTTGGTC ACATTGCTGA CAGGATGCCT AGCCGAGGGA GAGCCGGAGG TGACAGATCA GCTCGAG	60 120 157
(2) INFORMATION FOR SEQ ID NO:910:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:	
GAATTCGCGG CCGCGTCGAC AGAATAGACC TGGTTTGTGA ATTATGGCCT GGATTTCACT TATACTCTCT CTCCTGGCTC TCAGCTCAGG GGCCATTTCC CAGGCTGTTG TGACTCAGGA ATCTGCACTC ACCACATCAC CTGGTGAAAC AGTCACACTC ACTTGTCGCT CAAGTACTGG GGCTGTTACA ACTAGTAACT ATGCCAACTG GGTCCAAGAA AAACCAGATC ATTTATTCAC TGGTCTAATA GGTGGTACCA ACAACCGAGC TCCAGGTGTT CCTGCCAGAT TCTCAGGCTC CCTGATTGGA GACAAGGCTG CCCTCACCAT CACAGGGGCA CAGACTGAGG ATGAGGCAAT ATATTTCTGT GCTCTATGGT ACAGCAACCA TTGGGTGTTC GGTGGAGGAA CCAAACTGAC TGTCCTAGGC CAGCCCAAGT CTTCGCCATC AGTCACCCTT TTTCCACCTT CCTCTGAAGA GCTCGAG (2) INFORMATION FOR SEQ ID NO:911:	60 120 180 240 300 360 420 480 487
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 478 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:	

${\tt GAATTCGCGG}$	CCGCGTCGAC	AGTTACTGAG	CACACAGGAC	CTCACAATGG	GATGGAGCTA	60
TATCATCCTC	TTTTTGGTAG	CAACAGCTAC	AGGTGTCCAC	TCCCAGGTCC	AACTGCAGCA	120
GCCTGGGGCT	GAGCTGGTAA	AGCCTGGGGC	TTCAGTGAAG	TTGTCCTGCA	AGGCTTCTGG	180
CTACACTTTC	ACCAGCTACT	GGATGCACTG	GGTGAAGCAG	AGGCCTGGAC	AAGGCCTTGA	240
GTGGATTGGA	ATGATTCATC	CTAATAGTGG	TAGTACTAAC	TACAATGAGA	AGTTCAAGAG	300
CAAGGCCACA	CTGACTGTAG	ACAAATCCTC	CAGCACAGCC	TACATGCAAC	TCAGCAGCCT	360
GACATCTGAG	GACTCTGCGG	TCTATTACTG	TGCAAGGGAC	AGCTCAGGCT	ACGACTATGC	420
TATGGACTAC	TGGGGTCAAG	GAACCTCAGT	CACCGTCTCC	TCAGCCAAAA	CGCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:912:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 433 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

GAATTCGCGG CCGCGTCGAC CCAGGATGCC GCGCAGCAGA GCTCTGATTC TGGGGGTCCT CGCCCTGACC ACCATGCTCA GCCTCTGTGG AGGTGAAGAC GACATTGAGG CCGACCACGT AGGCACCTAT GGTATAAGTG TATATCAGTC TCCTGGAGAC ATTGGCCAGT ACACATTTGA ATTTGATGGT GATGAGTTGT TCTATGTGGA CTTGGATTAGA AAGGAGACTG TCTGGATGCT TCCTGAGTTT GGCCAATTGG CAAGCTTTGA CCCCCAAGGT GGACTGCAAA ACATAGCTGT AGTAAAACACA AACTTGGAG TCTTGACTAA GAGGTCAAAA TCCACCCCAG CTACCAATGA GGCTCCTCAA GCGACTGTGT TCCCCCAAGTC CCCTGTGCTG CTGGGTCAGC CCAACACCCT CATCATGCTC GAG	60 120 180 240 300 360 420 433
(2) INFORMATION FOR SEQ ID NO:913:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:	,
GAATTCGCGG CCGCGTCGAC GCAAGATGGA TTCACAGGCC CAGGTTCTTA TATTGCTGCT GCTATGGGTA TCTGGTACCT GTGGGGACAT TGTGATGTCA CAGTCTCCAT CCTCCCTGGC TGTGTCAGCA GGAGAGAAG	60 120 139
(2) INFORMATION FOR SEQ ID NO:914:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:	
GAATTCGCGG CCGCGTCGAC ATCATGGCTA CCCTGCGTGT CCCACTCCTG GTGGCTCTCG TCCTTCTTGC TGTGGCAATT CAGACCTCTG ATGCAGGTCC CTATGGTGCC AATGTGGAAG ACAGTATCTG CTGCCAGGAC TACATCCGTC ACCCTCTGCC ATCACG	60 120 166
(2) INFORMATION FOR SEQ ID NO:915:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 590 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:	
GAATTCGCGG CCGCGTCGAC TTCTTGGGCA GCACAGAAGA CAGAGCCGAT TTTGACCAAG CTATGTTCCC TGTGATGGAC ACCTTCGAAA TCAATGATCC AGTGCCCAAG AAGAGAAATG GGGGGACCTT CTGCATGGCA GTCATGGCCA TCCACCTGAT CCTGCTCACG GCAGGTACTG CACTGCTGCT GATTCAAGTT CTCAATCTGC AGGACAGCT CCAGATGCTA GAGATGTGCT GTGCGAATGG ATCACATAGCT ATCGAGGACA AGCCCTTCTT CTCGCTGCAG TGGGCACCCA AAACACACCT GGTACCTAGA GCACAGGGC TGCAAGCCCTA GCAGGCCCAG CTCAGCTGGG	60 120 180 240 300 360

420

GAATCCCCGG	TAAAGGTGAA CGAGGCTCTC CAGGTCCAAA AGGGGCCCCG GGTGCTCCTG GCTGCCTGGG CCAGCTGCTG AGAAGGGAGA AAAGGGGGGCT GCAGGTCGTG AGGTGTCCAA GGACCCCAGG GCCCACCAGG AAAACTCGAG	480 540 590
(2) INFORM	ATION FOR SEQ ID NO:916:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 592 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:916:	
TTCTATGGCT TCCTGAGAGT CCAACTACTT TTCGTTCAAA CCAAACGTTC TGCTGCAAGT AGTGAAGCCA TCAGGACAGC	CCGCGTCGAC GGAAGAGCAA TGAAAACATA TGCTCCTACA TTATTCATGT GCAGCTGGAT GGGATGAGCC AAGGTGAGCA GGTGGAGCAG CTTCCTTCCA CCAGGAGGGA TCCNGTGCCA GCATCAACTG CACTTATGAG AACAGTGCCT CCCTTGGTAT AAGCAAGAAC CTGGAGAGAA TCCTAAGCTC ATCATTGACA TATGGAAAGA AAGCAGACCC AAGGACTCAT CGTTTTACTG GATAAGAAAG TCCCTGCACA TCACAGACAC CCAGCCTGGA GACTCAGCCA TGTACTTCTG GAGAGCACCA ATACAGGCAA ATTAACCTTT GGGGATGGGA CCGTGCTCAC AACATCCAGA ACCCAGAAAC CTGTGTGTAC CAGTTAAAAG ATCCTCGGGTC ACCCTCTGCC TGTTCACCGA CTTTGACTCC CAAATCAATG TGCCGAAAAC GGAACGTTCA TCACTGACAA AACTGTGCTG GACAATCTCG AG	60 120 180 240 300 360 420 480 540
(2) INFORM	ATION FOR SEQ ID NO:917:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:917:	
CTGGATCTCT	CCGCGTCGAC GAATGAGGTG CTCTCTTCAG TTCCTGGGGG TGCTTATGTT GGAGTCAGTG GGGATATTGT GATAACCCAG GATGAACTCT CCAATCCTGT GAATCAGTTT CCATCTCCTG CAGGTCTAGT AAGAGC	60 120 166
(2) INFORMA	TION FOR SEQ ID NO:918:	
(i) ·	SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:918:	
ACTACAAAGT	CCGCGTCGAC GTCTGAGAGG AACCCTTCTC TGAGGATGGA CACTTCTCAC CCTGTTTGCT GATTCTTCTT GTGGCCCTAC TGTGTGCAGA AAGAGCTCAG GTTACCAGTG CTATGGAGTC CCATTTGAGA CTTCTTGCCC ATCAATTACC	60 120 180

TCCATACCAG CCAGGAGCAA CTCCGTCAGC AGTTCAACAA CCTCACTCAA AATCCAGAGT

TGCCCCTACC CTATAGTGAG

PCT/US98/06956

200

(2) INFORMATION FOR SEQ ID NO:919:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:	
GAATTCGCGG CCGCGTCGAC CCAACCTTCC GGAAGCCTCC CCATCAGCAC CATGAACCCA AGTGCTGCCG TCATTTTCTG CCTCATCCTG CTGGGTCTGA GTGGGACTCA AGGGATCCCT CTCGCAAGGA CGGTCCGCTG CAACTGCATC CATATCGATG ACGGGCCAGT GAGAATGAGG GCCATAGGGA AGCTTGAAAT CATCCCTGCG AGCCTATCCT GCCCACGTGT T	60 120 180 231
(2) INFORMATION FOR SEQ ID NO:920:	•
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:	
GAATTCGCGG CCGCGTCGAC GTTTTGTTAT TGTTACGAAG TAAATGATTC GTATGCTGTA CATAGCTGTT ATAGAAGTGG CGATTAGTGT AATTAGTAGG GCTCAGGCTC TCGAG	60 115
(2) INFORMATION FOR SEQ ID NO:921:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:	
GTTGAATTCT AGAAATCAAA ATTAATTTGA CAAAGGAAAA GCAGATGCCG GAAACTTCTT CCCAGTCTGT CATACAATTC ACCACTGGCC AGGTGCTGAG AGAAGCATTA GGGAACAGTG TGGGTTGTGT CAGAGTTGGA CGGCTCCATC CCTTTGGCTT CATTATCTTC CTCCTCATGG AGATTCTAAA GCAACCCGTC GACGCGGCCG CGA	60 120 180 213
(2) INFORMATION FOR SEQ ID NO:922:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 504 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

			AAAGAAGGAG			60
			CTGGTCCACG			120
			TGGCTGTCCA			180
			CAGTCACCAC			240
			AACAAAAGAC			300
			TCCAGTAACC			360
			CCCCCACCCG			420
TCGGAAAACA	TGTGGAACAC	GGGCAGCACC	TACAACCTCA	GCAGCGGGAT	GGCCGTGGCA	480
GGGATGCCGA	CCACCAGACT	CGAG				504

- (2) INFORMATION FOR SEQ ID NO:923:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 119 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

GAATTCGGCC AAAGAGGCCT ACATTCATCA AGTCATCCAA CTTCTATAGT CAAAGCAGGA 60 TCATGTGGCG AAGCATATGC TCCACAAGGG TGGATAGCTT TTTTCATGGA ATTCTCGAG 119

- (2) INFORMATION FOR SEQ ID NO:924:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 706 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 924:

			GAGGAGGAGG			60
GTTGGAGGAC	ATAATTCATG	GATCATAGCT	CCAGAAGTGA	AAAGGGAGGA	AATGTAGACA	120
GAGGAAGGCA	TTAGCCATTG	AGAAGAATAG	GGACATATTT	TCTTTACTCT	CTTGTCAGAG	180
			TAAGAATGAA			240
			AGTTTGAGAA			300
			AGGTTTGGGA			360
			AATATTTAAA			420
			ACTGGAAATG			480
			TGTAGTATTT			540
TTTATAGTGA	AAAAGTGTCA	TTTTTTTACA	TTGGTCAATT	TTTTGTTATT	AAATTTCATG	600
CTTGTTTTTA	ATTGTTTCTT	GTGTGTATGA	TTGCAATATC	AGGTATTTGA	TGTGGTGATG	660
TGTGTGATTC	AGAAGTCAGA	AGACTTAAGT	TCCGACACCC	CTCGAG		706

- (2) INFORMATION FOR SEQ ID NO:925:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 651 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

GAATTCGGCC	AAAGAGGCCT	AGGATTCAAA	TTATTCTGAC	AGACCTGTGT	GGCAGTTCAG	60
GCTGATAGCT	GGAGTTTCTT	GTCTTTTTCT	ACATGGCCTT	TCATCTTCCA	AGAGTTAGAC	120
TATGATTCTT	CACATCATGA	TGGCTTAGGG	TCCCAAAAAG	AAAAGAGTAG	AACTTGCAAT	180
			ACAGTGATAC			240
CAAAGCAAGT	CACAAGGCCA	GCCAGATTCA	AAAGAATGGA	AAAATAGACT	CAATTTCCTG	300
GTGAGAAGTA	GCAAGGTCAC	ATTGCAAAGG	AGTCTGGACA	TGGGAAGGAG	TTACTCATTT	360
			CTGTAATTTG			420
			CTTAATTTTG			480
			AATCCCAGGG			540
			CATGAGTCTG			600
AGTTTAGGGA	AGCAACTTTA	TTACTCACAG	ACAGGCAGCA	AGGGACTCGA	G	651

- (2) INFORMATION FOR SEQ ID NO:926:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 700 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

GAATTCGGCC	AAAGAGGCCT	AAAAAGATGA	AAGGACCAAT	CAAAGATTTA	ATTAAAGCTA	60
AAGGGAAAGA	TTTAGAGACA	GAGAATGAAG	AAAGAAATTC	TAAGTTGGTG	GTGGACAAAC	120
CAGAACAGAC	AGTGAAGACC	TTTCCACTGC	CAGCTGTTGG	TTTGGAAAGA	GCAGCTACTA	180
CAAAGGCAGA	TAAAGACATC	AAGAATCCAA	TCCAACCATC	CTTCAAAATG	TTAAAAAATA	240
CTAAACCAAT	GACTACTTTC	CAAGAAGAAA	CCAAGGCTCA	GTTTTACGCA	TCAGAGAAAA	300
CCCTCCTAAA	AGAGAACTTG	CCAAAGATTT	GCCTAAATCA	GGAGAAAGTC	GATGTAATCC	360
TTCAGAAGCT	GGAGCGTCTT	TACTGGTTGG	CTCAATAGAA	CCTTCTTTGT	CAAATCAAGA	420
TAGAAAATAT	TCCTCAATTC	TACCTAATGA	TGTACAAACT	ACCTCTGGTG	ATCTCAAATT	480
GGACAAAATT	GATCCCCAAA	GACAGGAAAT	TCTAGTAAAA	TTACTAGATG	TGCCTACTGG	540
TGATTGTCAT	ATTTCTCCAA	AGAATGTCAG	TGATGGGGTT	AAAAGGGTAA	GAACATTATT	600
AAGCAATGAG	AGAGATTCCA	AAGGCAGGGA	TCACCTCTCA	GGAGTCCCTA	CTGATGTTAC	660
AGTTACTGAG	ACTCCAGAAA	AGAACACAGA	ATCCCTCGAG			700

- (2) INFORMATION FOR SEQ ID NO:927:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

GAATTCGGCC	AAAGAGGCCT	AGGGGTGGTG	GAGGCGTGGA	CCCAACGGTG	ACCGTCGGGA	60
TGGAGCAAGG	GCAAGGAGAG	GCTCTGGCCC	AGACACAGCT	TGGAAAAGCT	CATCTCCCTC	120
TGGGGTTTAA	AAACTCAAAG	CAAACGGAGC	AAGCCTGGCG	GCCCTGGGGA	TGGGGCAGGG	180

CCTCTACCTC ACTGTGATCT TCGACCTGGC GACACAGGAC AGCCACACAG AAGCACGCCA ACACACTTAA AGCTTTGCTC CAACTAAATC ATTTAGTTTC CCTTGAAGAA ATAACTGAAA AAAAAAAACAA CTGCTGACAT CTATGTCTGT AGCTCGATTT TACAGTCTGC TCTTTGTGAG AAAGGAAAAT CACTCGAG	240 300 360
(2) INFORMATION FOR SEQ ID NO:928:	378
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 426 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:	
GAATTCGGCC AAAGAGGCCT AATATTTCAC ATTTCTCTTT TCTAAAAGTG TAAATTTTTC	60

120

180

240

300

360

420

426

ACTTTAAAAT GAAGCAAGAA TTAAATAAAT AGAACAAATA CCATATATCA TCACAGAGTC

AATATATTAT GGTCCTGTTC TGACCAAGTG TTGCATTGTA TTTGTGTTAC CAGAACTGCA

GGGCTTTCTA TGGCTACATG GTCAGTGCAT GCTCAGACAG CTGTTAAAAT CAAAACCTTC

ACTGTGCTGG GTCACCTGGT AACTACTGTC TATCTCACAA GTGCATTCTG CTGACATTCA

AGGGTTAAAC TGGTTTCTAG TAAATACTGT GCTTTAAAGT AGTACATACT GTGAGCTGTG

TTATTAGAAA CCTGCTTGTC CTTGTGTCTG AAAATAAGGA GGAACACTCT CGCACCAAAT

(2) INFORMATION FOR SEQ ID NO:929:

CTCGAG

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 325 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:

GAATTCGGCC AAAGAGGC	CT AGGTAAATGT	TAGTGGAAAA	TTTTATGAGT	ATATGCTGAA	60
AGGAGAGATT AGTTCACA	TG AACTCAATAA	TGTTCAAGAT	AATGAAATGC	TTAGAAAGGT	120
TACTTTTGAT CCAGAAGT	AT TTTTCAACAT	ATTACTTCCT	CCTATCATAT	TTTATGCAGG	180
TTATAGCCTG AAAAGGAG	AC ATTTTTTCG	AAATCTTGGG	TCTATCCTAG	CATACGCTTT	240
TCTTGGAACA GCAATTTC	IT GTTTCGTTAT	TGGGTCAATA	ATGTATGGCT	GTGTAACGCT	300
GATGAAGGTA ACGGGACA	AC TCGAG				325

- (2) INFORMATION FOR SEQ ID NO:930:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 406 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

GAATTCGGCC AAAGAGGCCT ATGGACACCC TGTGCCCCAA GCCGATGGCC CCACCCAGCA 60
GCATCAGCAC AGNTGCCCCC CTTCTCCGCA GAGCAGGCTC TCCTTTACGG GACTCTCCTC 120

TTCCCTCCCA	CCTGATGCGC	ATCAGCAGCC	ACGGGCCTGG	CCCTTGAATC	TTGTCTAACT	180
GCACTCGCTG	CCTGGTGGCC	TCATCCCACC	CCAAGACCAC	TGCACTGATG	GCTCCAACCC	240
CAACTTCTCC	CTGCACTCAG	CTTATGAATA	CGACGCCCT	CATTGCATCC	ATGCAGAGAC	300
CTCAGAGGCA	GCTCAGCTCA	GTGCTCAGCG	TGGCACTCGG	GGCTTCACAC	TTCCCCCCGT	360
GTCCTGTCTG	AGAAAACTGT	GACACCATCA	ACCCAACTAA	CTCGAG		406

- (2) INFORMATION FOR SEQ ID NO:931:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 246 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:931:

GAATTCGGCC	TCATGGCCTA	CCAGACTGTA	AACATTCCAG	GTCCTGAAAA	AGTGTTGGAC	60
CAGTCTCCTA	CTGTTATGTT	CTCCAGTTTT	AAAAATGTAA	AATCAGTTGA	AACACTCGAT	120
CAGAAGGCAG .	ATGAAGTCCT	TGACTGTCAG	AGTAACCAAA	ACAGACCAGA	TGAATGCAAA	180
AGTGAAGGTC .	AGTCAGCCAA	GGAGATGCTA	AGTAGTGACC	AGAGAGAGAC	TGTCACCGGA	240
CTCGAG						246

- (2) INFORMATION FOR SEQ ID NO:932:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 278 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:932:

GAATTCGGCC	TTCATGGCCT	ACTCCATTGT	CACGCCAATT	TCCCCTAGTC	CAAGTTTTTT	60
CTTTGCTGAT	TCCTTTGTCC	ATGTGTGCTT	TGAGCCTCTC	TCATCTTGTC	TTTCCTCCTT	120
TCCTAGGAGC	AGCTCCTGAA	GCAGCAGCAG	CAGCACCAGT	GGCAGCAGCA	TCAACAGGGC	180
TCTGCCCCTC	CTACCCCAGT	GCCCCCATCA	CCACCACAGC	CTGTGACCCT	GGGGGCTGTG	240
CCAGCTCCAC	AGGCTCCACC	CCCGCCCCAC	AACTCGAG			278

- (2) INFORMATION FOR SEQ ID NO:933:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 421 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:933:

GAATTCGGCC	TTCATGGCCT	ACGAGTGCGA	CCAGCCAGAT	GAGCGCCCGG	TCCTGGTGAA	60
GAGCATTCAC	TACCTCTACT	TCTCCATGAT	CCTGTCCACG	GTCACCCTCA	TCACTGTCTC	120
CACCGTGAGC	TGGTTCACAG	AGCCACCCTC	CAAGGAGATG	GTCAGCCACC	TGACCTGGTT	180
TACTCGTCAC	GACCCCGTGG	TCCAGAAGGA	ACAAGCACCA	CCAGCAGCTC	CCTTGTCTCT	240
TACCCTCTCT	CAGAACGGGA	TGCCAGAGGC	CAGCAGCAGC	AGCAGCGTCC	AGTTCGAGAT	300

	AACACGTCTA AAACCCACAG CTGTGACATG ACCCCAAAGC AGTCCAAAGT ATCCTGTGGC TCTGTGGAAT ACAGGAGAAG GGCAAGGAAG AGCTCCCGGC	360 420 421
(2) INFORM	ATION FOR SEQ ID NO:934:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 449 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:934:	
TTGCAAATTC AGACACCTGC ATAGCTCACT ATTTTGATGA ATAGCGGTGA GTCATTCTTC GTGAAACTCA (2) INFORMM	AAAGAGGCCT AAAATAGCAA AGATGGAACA TGGACCTAAA GCAGTGACTA TCCATCAAAG CCTTCAGAAA AGGATTCTGT AGTTTCCCTT GAGTCCCAGA TGACCCAAAA CTGAAAACTC TAAGTCAAAC CAAAAAAAAC AAAGGATCTG CTCTGGTAAC AGTGATGGCG GAGAAGAAT TTGTGAAGAG GAGAAGAAT TAGCACAGAA GAAAGGTTTT ACAAGCAGTC TTCCATGTCT GAAGATAGTG CGACTTCTTC ATTGGGAAAG TCAGACGGAC ACGAAAGAAG GAAAGTAGTT AGTTAAGGAA CAAAAACCAC TAGAAAAAGT GTTTCTTAAA GAAGATACAG TGGGGATACA ACTCTCGAG ATION FOR SEQ ID NO:935: SEQUENCE CHARACTERISTICS: (A) LENGTH: 421 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear MOLECULE TYPE: cDNA	360
(X1)	SEQUENCE DESCRIPTION: SEQ ID NO:935:	
CATTCTACTG AGTCATTTT AAGTTCATTT TATTTATTCT TTTTGGAAAT	AAAGAGGCCT AAAAATAGTG ATTTTTGAC TATCTATAGA TATTAGTTGG TAAGGAAAAC TTTCTTTCT CCTGTACTTA TTCATCGTCC CCCAGGAATC CCAAGGAGAC CTAGTTCCTT TTTGTGAGG GTTGTTTTTGAAGTTTTTG GAGGTTTTGA GTTCATTTTA CTATAATCTG CCTAGGTGTG ATTTTTCTTTT GCTTAGGATT TGCAGAGATT TTTTTGAACC TGTGGCTTGA TGTCCATCAC TTCTCAGCCA GCATAGTATC TGCAGACTGT GTGTCTGTTC CATTTTCTCT TGTAGGACTT CATTCACAAG GATGTTAGAA CTTTTTACCA TGGCTCTCGA	60 120 180 240 300 360 420
(2) INFORMA	ATION FOR SEQ ID NO:936:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 648 base pairs (B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

GAATTCGGCC AAAGAGGCCT ACAGGTCTAC TGGTAATGAT TTCCTTTACC TTCTAATTAT

ATAGAAATGT	CATAATTTCT	CCTTTATTCT	TGAATGATAG	TTTTGTGGGA	TATAGACTTG	120
CTGGATATAG	AATTACTGGA	TATAGAATTG	CCAGATATAA	AATTCTTGGT	TCAAAGTTTT	180
${\tt TTTTCTTTGA}$	GGACTTTGAA	TGTCATCCCA	CTGTCTTCTG	GCCTCCATAG	TTTCTCATAA	240
TAAATCAGCT	GTTAATCTTC	ATTAAGTTTC	CTCTGTACAC	GAAGAGTCAC	TTGTCTCTTG	300
CTGCTTTCAA	ATTTTTCTCA	TTTGCTTTGG	GTTTTCACAC	TTTAATTATA	TGCCTTTCTA	360
TGTGGATCTC	TTTGAGTTTA	TCCTGCTTGG	AGTTCATTGA	GCTTTTTGCA	TCTGTATATT	420
AATTTCTTTC	ATCAGATTTG	GAGATGTTTT	TGGCATTTAT	TTCCTCAAAG	TTCTTTCTGC	480
TTCTTTCTCT	CCTTCTCCTT	CTGGGTCACC	ACAATGCATA	TGTTGGTCTA	CTTGATGATG	540
TCTCACAGGT	TCCTTAGACT	CTGTTTACTT	TTCTTCATAT	TTTTTTTTTT	CTGTTTCTTA	600
AATTTGGATA	ATTTTGGTTG	TCTTATATTC	AAGTTTGCTG	ATCTCGAG		648

- (2) INFORMATION FOR SEQ ID NO:937:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 160 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

GAATTCGGCC	AAAGAGGCCT	AGAGGATGGG	AAGCTTGGGG	AGAGAAGATA	CTGAAATGCT	60
AGAAACTGAG	CCAGTAGAGG	ATGGGAAGCT	TGGGGAGAGA	GGACATGAGG	AAGGATTTCT	120
GAACAACAGT	GGGGAGTTCC	TCTTTAACAA	GCAGCTCGAG			160

- (2) INFORMATION FOR SEQ ID NO:938:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 399 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

GAATTCGGCC AAAGAGGCCT	AGAAAAACTC	AGGAAAGAAA	TTGCAGACTT	CGAACAACAG	60
AAAGCAAAAG AATTAGCTCG	AATAGAAGAG	TTTAAAAAGG	AGGAGATGAG	GAAGCTACAA	120
AAGGAACGTA AAGTTTTTGA	AAAGTATACT	ACAGCTGCAA	GAACTTTTCC	AGATAAAAAG	180
GAACGTGAAG AAATACAGAC	TTTAAAACAG	CAAATAGCAG	ATTTACGGGA	AGATTTGAAA	240
AGAAAGGAGA CCAAATGGTC	AAGTACACAC	AGCCGTCTCA	GAAGCCAGAT	ACAAATGTTA	300
GTCAGAGAGA ACACAGACCT	CCGGGAAGAA	ATAAAAGTGA	TGGAAAGATT	CCGACTGGAT	360
GCCTGGAAGA GAGCAGAAGC	CATAGAGAGC	AGCCTCGAG	•		399

- (2) INFORMATION FOR SEQ ID NO:939:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 519 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTCGGGC	AAAGAGGCTA	GAAGCATCGA	AAGCGTTGGA	GAGGTGTTAC	CGGTAACGGC	60
			GGCATACATA			120
			ACAGAAGGTG			180
			CAAGGAGGAC			240
TTGAACCAGC	AACAATGGAT	GCAGTCATTC	CAGCACCAAC	AGGATCCAAG	CCAGATTGAT	300
TGGGCTGCAT	TGGCCCAAGC	TTGGATTGCC	CAAAGAGAAG	CTTCAGGACA	GCAAAGCATG	360
			GGACAAGATA			420
CCAAACAATC	ATGGGAATTT	CCAAGGGGAT	TCAAACTTCA	ACAGAATGTG	GCAACCAGAA	480
TGGGGAATGC	ATCAGCAACC	CCCACACCCC	CCCCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:940:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

GAATTCGGCC AAAGAGGCCT	AAGAAATTAT	ACCATTTTAT	GGAATGTCAA	GCTACATCAC	60
CCGAGAAGAC CAGTACAGCA	AGCCTCCGCA	CAAAAAACTG	AAAGACCGCC	AGATCGATCG	120
CCAGAACCGC CTCAACAGCC	CTCCTTCTTC	TATCTACAAA	AGCAGCTGCA	CAACAGTATA	180
CAATGGCTAT GGGAAGGGCC	ATAGTGGTGG	AAGTGGCGGA	GGCGGCAGCG	GTAGTGGTCC	240
CGGAATTAAG AAAACAGAAG	CGCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:941:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 535 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

GAATTCGGCC AAAGAGGCCT	AAGCCTCGCC	TTACACTTAA	GTGCACCCGA	TCCTGCCTCT	60
GGCATCTCAC AAACGTCACT	CCCTGGAACA	AATTTGTGAA	GGCCTCCAGA	CCACAGTGTC	120
CTCATCTGTA AAATGGGGGT	AGTAGTAATC	CTTGCCTCAT	AAAGTTCTTG	GCAAGGATTA	180
GATGAGCGAG CATGTGAGTT	TGGCCTCCGT	TTAAACACTC	CATAAAGTTT	CCTTTTAGGA	240
TAACAGCAGG CCGTTTTAGA	ACCTTCCAGA	GGTTACTTAT	TCAGATATCC	TTAGGTGACG	300
ATTGGGAAGC TGCCGTTTCT	TGAGAGCCTC	CTGGGTGACA	GATGGAGAGT	GGCCCTGGCG	360
TGACCCTTGA CCCTATCCTT	GAGGCTTTCC	TGCCCGTCTC	CTGCCTCGAA	TGTGCTCCGC	420
AGCACATGGA TCAGGATGGG	GAAGGGGCTG	TGTCACTGGA	TACCTTCGGC	CCCTGCCCAC	480
GTCTAGGGCC TGTGAAAACG	AGGAGGGACA	GCAAAGAAAT	GGGGAAAGGC	TCGAG	535

- (2) INFORMATION FOR SEQ ID NO:942:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

GAATTCGGCC	AAAGAGGCCT	AAAATTGTTA	ATTCTAGTCA	CCCTGCAGTG	CTATAGAACA	60
CTGGAACTTA	TTCCTCCTAT	ATCACCGTAT	TTTTGTATCT	ATTAACAAAC	CTCTCCATAT	120
CCTCCCTCCC	TCCTACCCTT	CCCAACCTTT	GGTAATCACT	ATTCTCCTCT	CTACTTCTAT	180
GAGATCAATG	TCTTTATTTA	CTCGAAGTAC	TCTTAAAAGT	TTAGGACTTA	AGTATTTGAA	240
GAAATTCACT	TGCTTTTTGT	TTTTATTCTA	CTCAATACTT	TTTAATATAA	AGATTTACAG	300
TCCCCCCTTA	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:943:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 363 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

GAATTCGGCC	AAAGAGGCCT	ACAAACTCAA	GATGCCCGAG	TGGATTGGAG	GCGAGAGCGA	60
GCTCAGGAAG	TTTCTAAAAC	ATCATTTGCG	AGGAAAGAAC	TGTGAACTCC	TGCTGGTGGT	120
ACCAGAAGAG	GTAGAGGCTC	ATCAGAGTTG	GAGGACCGAT	GTGTAACAGT	TCTGCCCAAC	180
CTCCCTCTCG	CCTCAGCCCC	TTCAGTCCTC	TGTGACGTGC	TGTGGCCTCT	ACAGTGGGTC	240
TGCCCTTGCC	ACTTCCCCAA	ACATCTCATC	AAGTTTTTCC	CCTTCAGATC	TGACAGTGCA	300
ATAGGACAGA	CGTGTGGACT	GTTATAAGAA	CTACTCAGTG	TTTTGTTCCT	GGGCAAACTC	360
GAG						363

- (2) INFORMATION FOR SEQ ID NO: 944:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

GAATTCGGCC AAAGAGGCC	T ACTCTGACAG	TGTTTCTGAC	CTTTAGCATT	TCTTTTTGAT	60
TCTTTCTTAG AATTCTCAT	C TTCTGCTTAT	ATACCTGTCT	ATTCTTGCAT	GCTGTCTACG	120
TTTCCCATGA GAGTCCTT	G CACATTAATC	ATGGTTGTTT	TACATTCACA	GTCTGGTAAT	180
TCCAGCATCC CTGCCACAT	C TGAATCTAGT	TCTGATGCTT	GCCCTGTCTC	TTCAAACTCT	240
GTTTTTTTGC CTTATAATC	T TTTGTTGAAA	GCCGAACATG	ATTCCTGTAC	TGGCTCTTCT	300
GGAGGCTTCT GCCCTGTTC	T CGAG				324

- (2) INFORMATION FOR SEQ ID NO:945:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 712 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

${\tt GAATTCGGCC}$	AAAGAGGCCT	ACAGATGACT	TCATTTCTCT	TGGATTCCAC	TTTCTCACGT	60
GTCAGAATGG	GAGAGGAAGG	GAGGTGTTGG	GATAAGTTTC	AGTTCCACTG	TTTGTACTTC	120
TCGTCTGGCT	AACACCCATG	TGGCAAATAG	GTTTCATCAT	TTGTTTCAGC	TTAGATTTGT	180
TGACAGCGGT	TTCCTGGAGT	GCTGTCTTGA	GAACGATTCT	GAGGAGGCTC	AGCAAGAAAG	240
AGTGTTTCAG	TTGATTGGGT	GTGTCTGTCA	TGGAGAAGGA	AGTAAGGAGT	GGGCAGTGCT	300
AGCAAAATTC	CCGGGGCACT	TCTGTCCATT	ATCTCAATAC	CTGGGGTTGA	CATTTCCTGT	360
CTCAGATCAG	GAGTCCTGAC	TACCCTGCCT	CTGACCACTC	GAACTGAGTG	CTGCTTAGCT	420
GTATCGTAGA	CACCGCCTGT	TTGTGAACAG	ACACCCTGCT	TCTTGATAAC	ACAAAGGCCA	480
GCAGGGTCCA	CTGCTGTGTG	GAATGGCCTT	CGGTCATTTC	TGCCCAGAGC	ATAGAGGTCA	540
TTTTCACTAA	TAACATAACT	CTCCTTTTGA	TTGAAAGTGT	TAAAATGTTC	CTCCTAAAAG	600
CACTTATTTT	TTAGGCTCGT	TCTTCAGATT	TGCCCCATAT	CCTAAGCAAA	ATGCCTTCAA	660
TATGAAGTGG	ATATTGCTTG	ACCGTAGGGA	${\tt GCTTGTCCAT}$	ACTGTACTCG	AG	712

- (2) INFORMATION FOR SEQ ID NO:946:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: CDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

GAATTCGGCC	TTCATGGCCT	AGTCTTGAAG	GATAAGACTT	GCCCAAGTGG	ATAAGGGGCG	60
AAAGGCATCC	CAAGAGGAGA	CAGTAACGTG	TGTATAAATG	AACGAAGGCG	TGAAATAGGA	120
TGGAGTGTTT	TGAGGAACCA	CAAGTAGCCT	TCTCTGAGTA	AGAGCATAGG	TTTGTGAGGA	180
GGACCTAGTG	TTGTTTGAAA	AAAGAGAGTG	ATCAATGGAA	GATGAGATAT	CAAGACAGGA	240
GAACCAAGGA	AGAAAAAGCA	GAGGACAGCT	GGAATGAATC	AAACCGAAGA	ACCAGGATCC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:947:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

	${\tt GGGTTTTGTT}$	AATGGAAAGT	TTAAGTAAAT	TATATTGTAA	TAAAAAGGTA	GATAAACCAT	60
	TGTACAACAG	TATTCTAGGC	CGCCAACAAA	AGTGTGACAG	ACACACTAAA	AGCCCTCCAA	120
	CTTTAACTTG	TAACGTAGCT	TCATTCTCAA	AGCTGACTCC	TTTTTTTTCT	TTTTCCTTTT	180
	CTTGAGTGTA	GTACAGTTAA	AATTTCAAAC	AGCTCCTTGA	CACTGCTTTT	CATGTTCAAA	240
	CCAGCCATTT	TGTTGTACTT	TGGTAAAGGA	CCTCTTCCCC	TTCCTCCCCT	ACACATACAG	300
•	ATACACCCAC	CATAACTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:948:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 312 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

GAATTCGGCC	TTCATGGCCT	ACAAAAGGCA	ACAAACAAGA	TTAACATGGA	ATTATAAAAA	60
TCACTCAATC	CAAAATAAGG	CAGAAGAAGT	GGAAAAGGGA	GATGAAGATC	AGATGGAACA	120
AAGAATATTA	CTAGAAATGA	CTATGTTTTA	TAATGCAAAA	TAGTTCAGTA	CAGGAGAAAG	180
ATACAATAAT	TTGAGTGCAT	ATGAACTTAA	AAGAGAATTT	CAAAATATAT	GAAGCAAAAA	240
TTGACAGAAC	CCAAAAGGCA	ACAAACAAGA	TTAACATGGA	ATTATAAAAA	TCACTCAATC	300
CAATATCTCG	AG					312

- (2) INFORMATION FOR SEQ ID NO:949:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 291 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

GAATTCGGCC	TTCATGGCCT	ATAGGCCATG	AAGGCCGGGA	GCCTCAAGAA	AAATTAGCAG	60
AGGAAAATAA	TAGGTAGTTA	CTATTTAGGG	TAAACTAAAC	TGTTCTAAGG	AATAGAAAAT	120
AAAAATTCCA	TGTCTTCAAA	AATAATTCTT	CCCTCTCAAT	CTCTCTGAAT	ATCTCATAAĠ	180
AGTATTCAGG	CCACAGAAAT	AACTACCATT	TAGCCACTCA	GAGGCTTATA	GTAGTTCTAC	240
TAACTTTAAC	ATTTGGCAAC	CAAAATTACT	CTAAGAATCA	TCACCCTCGA	G	291

- (2) INFORMATION FOR SEQ ID NO:950:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 240 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GAATTCGGCC	TTCATGGCCT	AGATGGGCAT	TCTGTTTATC	TTACTAGTAG	TACGCAGGGT	60
ATGTTGAAAT	CTCCAACTGT	GATGGTGGAC	CTGTCAACTT	CTCCCTGTGG	TTTTATCAGT	120
TTTTCCTGGG	TATTTTGAGG	CTATTCTGAT	AGGTACATAA	AATACAAAAA	TTGCTATATC	180
CTCCTAATTA	ACACTTATTA	TCAAATTGTT	ACTAATGCTT	TCTGTTCCTA	GGCCATGAAG	240

- (2) INFORMATION FOR SEQ ID NO:951:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 404 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GAATTCGGCC	TTCATGGGCT	AGATCTGAGC	TCACTGCAAC	CTCTGCCTCC	AGGGTGCAAG	60
CCATTCTCCT	GCCTCAGCTT	CCCAAGTAGC	TGAGACTACA	GGCGTGTGCC	ACCACGTTGG	120
${\tt CTAATTTTTG}$	TATTTTTAGT	AGCTTTTTTT	TTTAAACCCT	GAGTGTCAGG	TGTGAGGTAG	180
TAGAAGAAAG	GTAGTGTTGT	TGACAGCTTG	TGAGTACTTA	ACTAATTCTT	GTTGCATTCA	240
CTATAATATG	GTAGTTGTGT	ATACATTTAT	AGGCAATTAG	GAATAGGGAA	CAGAATCAGC	300
AGATACTAAC	GGAGTTAGAG	ATGTTTGCTG	AAGTCATGGA	AAGCCATCAT	TACTTTTTTC	360
TTCCTTCCTC	ATAAGGCCTT	AGTGGGTGTG	GCGTTCAGCT	CGAG		404

- (2) INFORMATION FOR SEQ ID NO:952:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 382 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

GAATTGGCCT	TCATGGCCTA	GAAAAATÇAT	GTGGGAAAAC	CACTGCTGAA	AATGGATTTA	60
AATTCAGAAC	AGGCGGAACA	ACTGGAAAGA	${\tt ATCAATGATG}$	CTCTTTCCTG	TGAATATGAG	120
TGCCGCCGAC	GAATGTTAAT	GAAACGATTA	GATGTGACTG	TACAGTCCTT	TGGATGGTCT	180
GATAGAGCAA	AGGTAAAAAC	AGATGATATA	GCAAGAATTT	ATCAGCCTAA	GCGTTATGCT	240
TTGTCACCCA	AGACAACGAT	TACAATGGCA	CATCTACTTG	CTGCTCGTGA	AGATCTATCC	300
AAGATCATTA	$\tt GGACAAGTAG$	TGGCACCAGC	CGGGAGAAGA	CCGCATGTGC	CATTAATAAG	360
GTGCTGATGG	GAAGGGCTCG	AG				382

- (2) INFORMATION FOR SEQ ID NO:953:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

GAATTCGGCC TTCAT	TGGCCT AGTCCCTCT	T CCACTGCATT	TCGGCTTCAT	ACATGCACAT	60
GATGTCCTCC TCCTT	IGCACT CAGTGATGT	C TGGCACGCGG	CGGTACTGCC	GGTGGTAGTA	120
GTAATACCTG TTCTT	TTGCGT GCTGCCGCT	C TATAAATTCT	CTCACGAGGG	TCACGGGTCG	180
GTCCACGATG AGGTC	CGAACG CTTTCATCA	T GTAGACGATG	GGATTGGGCT	GCACCGGCGT	240
GCGGCGCGGG GGCTC	CAGGCT CGCTCGAG			•	268

- (2) INFORMATION FOR SEQ ID NO:954:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

GAATTCGGCT TCATGGCCTA AAGATTCTGC TCTTTATACA CAGAACTTTG TATAGAGTTC

TGGAATGAGG AAGTGTGAGG AGGGAATCAG TGCCTCTCGG AAGTCGTTTT AATTAGAATG TGATTTTTTT TTCTTAAACG TGTCTTCATT GGCTCCCAGA TTTGCCGTAG AAACCAAGCA AACTGGGTGC TAAAACAGAA AGGCCCATAG ATTGTACTTT TTGAGCTGTT TGAATTTGTA TACCATATGC ACAACTCGAG	120 180 240 260
(2) INFORMATION FOR SEQ ID NO:955:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:	
GAATTCGGCC TTCATGGCCT AATCCGAGTG TTTCGCGCAC GTCCTAAGCT GACAGTCCCT CTGGACAGAG TCCCTGGAGT GGAGTCACTG CTCCTTGTCT TTTTTTCATA ACATACACTC ACCCGTATG	60 120 129
(2) INFORMATION FOR SEQ ID NO:956:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 404 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:	
GGCTAAACAT GGAAATGAAA GACTGATACT TGCTACCACA AAAANANACT TAAGCACATA GATCATAGAC AGTATAAAGC AATTAGACAA TGAAGTCTAC AAAACAACCA GTTAACAACA CAATGAGAGT ATCAAAAATCT TACATGTCAA TACTAACCAT GAATATAAAT GATCTAAGCC CCCCACTTAA AAAGCATAGA GTGGCAAACT GGATAAAGAG ATAAGACCCA ACTGTCTGCT GCCTTTGAGA GACCCATCTT GCATGTGAGA GCTGAAAGTA ATGAGATGGA GAAAGATCTA TCATGCAAAA GGAAAACAAA AAAGACCAC GCTGAAAGTA ATGAGATGGA ATAAGACCAG TTTTAAACCA ACACTATCA AGAAGAACCT CGAG	60 120 180 240 300 360 404
(2) INFORMATION FOR SEQ ID NO:957:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 283 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:	
GAATTCGGCC TTCATGGCCT AGACTCTCTT TATACAATTC ATCAAGGTTA AACAAAACAT AAAATTCCCT TAAAAATAGG GTAATAAAAT AGATGAAATT TGTATCACTC AATTTGGTGA TACTAGTAAA AACTATAGGTT CATATTTATA TACAAATAAT ACAGTCTGTA AAAACAGTCT TAGAATTTAA ATAAGGTATC TAAACGTGTT AAAATTTTAA ATCAGGACCT GATTTGTTTT GCTTTCCATT AAATGTCACA TTGAATTCTA GACCTGCCTC GAG	60 120 180 240 283

- (2) INFORMATION FOR SEQ ID NO:958:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

CTCGAGGACC	TGGTCGTGAC	CAACTATAAG	ATGGGGGGGC	GACATTGCCA	ATGGGGTACT	60
TCGGTCCTTG	GTGGACGCAT	CTAGCTCAGG	TGTGTCAGTA	CTGAGCCTGT	GTGAGAAAGG	120
TGATGCCGTG	ATTATGCAAG	AAACAGGGAA	AATCTTCAAG	AAAGAAAAAG	AGATGAAGAA	180
ACGTATTGCT	TTTCCCACCA	GCATTTTGGT	AAATAACTGT	${\tt GTATGTCACT}$	TCTCCCCTTT	240
GAAGAGAGAC	CAGGATTATA	TTCTCAAGGA	AGGTGACTTG	GTAAAAATTA	GGCCTCTTTG	300
GCCGAATTC						309

- (2) INFORMATION FOR SEQ ID NO:959:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 149 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGGACTAC	TGCAAGTGCT	60
TAAAGGCATT	ATTTCATAGA	CCTTACAACT	ACCCATATAA	CATTATTATC	TTCATTTTAC	120
AAATGAGGAT	AATAATGTTA	TATCTCGAG				149

- (2) INFORMATION FOR SEQ ID NO:960:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 455 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

GAATTCGGCC	AAAGAGGCCT	ACACCGTAAT	ACTATAATAC	TATATAATCT	GTTTGTTAAT	60
TTTCTGAGAA	TAATAACTCA	ATGGAGTAAC	TCTTTAATAG	GCATCTTTTC	CTTATAAAAA	120
ATATTGTAGA	TTGGCTCTCT	GCAAGCTAAT	TTCTTTTATA	TGGTTAATAT	TTTAGTGTAC	180
ATTAAGAGCT	TAGAGTTCTT	TTTGTAATCA	AGCTTGCTAC	AGAAGCTGTG	CTTTATTTAT	240
TTCATAGTAA	TTTCCTCTAG	TGGGTCATTG	TATAAACCCT	GATCATTTTT	GTATGTCTAT	300
TCCTTTTCTT	GCGAAGTGGG	CAGCTTGTTT	AGCCATGGTG	TTTTGGCTTC	AATAGTGAGG	360
TCTCTATTTG	GGAATCTCTG	AATTTCACAG	GAATGAGTAG	AACTATATTT	AACAATGAAA	420
AAAATAGTAT	TAGATTTTAG	GGCAGCTGGC	TCGAG			455

- (2) INFORMATION FOR SEQ ID NO:961:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

GAATTCGGCC A	AAGAGGCCT A	ACCCTGTCTT	TATGCTCCAA	TGCTTCTTTC	TCCAGATATG	60
AAAGGAGATG C	TCTCTATCA A	AATGGCCCTG	TGGTGGACTT	TGATGTCTGG	TTCTTCTGCC	120
GGAACCCTGC TO	GGCTTTTTG (CTGTAGCTCC	ACATTCCTGT	GCATTGAGGG	GTTAACATTA	180
GGCTGGGAAG A'	TGACAAAAC 1	TCTCGAG				207

- (2) INFORMATION FOR SEQ ID NO:962:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 247 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCGGCC A	AAGAGGCCT	ACTGTAGTAT	TTAAATATCT	GTTACAGGTT	TCCAAGGTGG	60
ACTTGAACAG A	TGGCCTTAT	ATTACCAAAA	CTTTTATATT	CTAGTTGTTT	TTGTACTTTT	120
TTTGCATACA A	GCCGAACGT	TTGTGCTTCC	CGTGCATGCA	GTCAAAGACT	CAGCACAGGT	180
TTTAGAGGAA A	TAGTCAAAC	ATGAACTAGG	AAGCCAGGTG	AGTCTCCTTT	CTCCAGTGGA	240
TCTCGAG						247

- (2) INFORMATION FOR SEQ ID NO:963:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 472 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCGGCC	AAAGAGGCCT	ACAAGAACAT	GAAACATCTG	TGGTTCTTCC	TTCTCCTGGT	60
GGCAGCTCCC	AGATGGGTCC	TGTCCCAGGT	GCAGCTGCAG	GAGTCGGGCC	CAGGACTGGT	120
GAAGCCTTCG	GAGACCCTGT	CCCTCACCTG	CGCTGTCTCT	GGTGGCTCCA	TGAATAGTCA	180
CTACTGGAGC	TGGGTCCGGC	AGCCCCCAGG	GAAGGGACTG	GAGTGGATTG	GATATATCTC	240
TGACAGGGGG	AGCACCAACT	ACAACCCCTC	CCTCAGGAGT	CAACTCACCA	TATCACTAGA	300
AACGTCCAAG	AACCAGTTCT	CCCTGAATTT	GTTCTCCGTG	ACCGCTGCGG	ACACCGCCGT	360
ATATTACTGT	TCTCGTGGGA	CATCCCCCCC	CCCCTCCTAC	TACTACTCCA	TGGACGTCTG	420
GGGCAAGGGG	ACCACGGTCA	CCGTCTCCTC	AGGGAGTGCA	TCCACCCTCG	AG	472

- (2) INFORMATION FOR SEQ ID NO:964:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GCTCGGCTCG	CTGCAACCTC	TGCCTCCCAG	GTTCGAGCGA	TCTTCCTGCC	TCGGTCTCCC	60
AGGTAGCTGG	GACTACTGGC	GTGCGCGACC	ACGCCCAGCT	AATTTTTTGT	ATTTTTAGTG	120
GAGACGGGGT	TTCACCATGT	TGGCCAGGAT	GGTCTCAATC	TCTTGACCGC	GTGATCTGCC	180
TGCCTCGGCC	TCCCAAAGTG	CTGGGATTAC	AGGCTTGAGC	CACCGCATCC	AGCCAACATT	240
TTTCAAATAG	AAAATCTGAA	GCTAAAATCA	$\cdot \texttt{CCCCTAAAGG}$	ACAAATAACA	GGACTATCTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:965:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 281 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

GAATTCGGCC	TTCATGGCCT	ACTAGATTAT	GGATTTTTT	ATTTCAATGG	AAGTGAAGTT	60
CAAAGATGCC	AGAGTGGTAC	AGTTCGAACA	AACTGCTTGG	ATTGTCTTGA	TAGAACAAAT	120
AGTGTGCAGG	CATTTCTTGG	CTTAGAGATG	CTAGCTAAAC	AGTTGGAAGC	TCTTGGTTTA	180
GCTGAAAAGC	CTCAGTTGGT	GACTCGCTTT	CAAGAAGTTT	TTCGGTCAAT	GTGGTCCGTG	240
AATGGTGATT	CAATCAGTAA	GATATATGCA	GGAAACTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:966:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 454 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

GAATTCGGCC TTCATGGC	CT AGACGTGATG	TGTTGAGAGA	AGAATGTTCT	AGGCAGAGGC	60
AACAGCAGAT GCAAAGGT	CT GAAGGGGAGA	CAGACCGAGC	TAGAAAAGCA	TGGCACATCA	120
GTGATCTAAG TTCGTGTG	GT TTCCTAAGGT	TGGAACCTAG	GGTGCAAACT	GAGGATGGGC	180
AGATGAGGTG GAAGAGGA	AG AGCAGACCCA	GGTCACAAAG	ATCTTTTGTG	CTAAGGATTT	240
TTAAGCAGGT AGGAGGAG	AG AGAATATGAG	CCTTGGGATT	TGAACTGCTG	TGGGTGTACA	300
GAAAAAGAGA AACTCAAC	GA GAGGTTTAGG	TTTAGGGACG	TGGTAGGCTT	TTGCAGTAAG	360
GGACAAGGAC AGAAGGCT	CA TCTGAGGATG	GGAGGGACAC	TTTAGAGGCA	AATCCATAGG	420
ATGCAGTGGC TGAACAGA	AA AGGTGAATCT	CGAG			454

- (2) INFORMATION FOR SEQ ID NO:967:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 322 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC	TTCATGGCCT	AGTCATTTAA	TTTAACTTAG	CAAAACTCCA	ATAGTGTAAG	60
TTAACAGATT	TTGGAAACTG	GTTTTAAGTA	GATGTATTAT	AACATAAAAC	AAAGCTAGCC	120
ATTATCAAGT	TATTTCCTTG	TTAGCTATTT	TTACAGCATG	TGCATGTTAG	GTAGTCATCG	180
TGAAAGCAAG	AATCTTAAGT	TAAATACATG	TTTTTTTTTTTTTTT	TTGTTTGTTT	TACTGCTGTG	240
CTGTATAATA	CATGATGCTG	TTAGCAGCGG	AACGTATCAG	AGACACGGCA	CCAAAGTATG	300
TTACTGTCGG	CGAAAACTCG	AG				322

- (2) INFORMATION FOR SEQ ID NO:968:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 478 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC TTCATGGCCT AGACTGCTGG CATATCCACC CCACCTGTGC TGCTGCCCCC	60
GCCAATCCAT CAGGGCAGCT CCGACTCCTG CAGCACCCAC CGCCCAGGAC GTCAGCTACT	120
CAGGTTTTCT GGCTGCTGGG GTTCCGCACG AATGGGCCCT TCTTTTGGGA AAATGCCAGG	180
GAAGGGGAAC GGCTGGGCTC GGGCGCCACA GCTTGTCCCT CCAGCCAGCA GGCACAGATG	240
TATGGCGCAG GAGGGACAAC TGGCCCCTGT GGCCAGCCCC AGAGAGACGG GCCCTTTCTT	300
TGGGACCCTG GCCTCAGAGG CCTGCGTGTC ACAGCTCAGG GTCTGGCTGG GCAGGGGCAA	360
AACCTGCCTT ATTTGCCAGA TGTCCCAGAA GTACACAGGA GCAGACGCAC CACTTCGATG	420
GCTATTTTAG GAGGCTGGTG ACAAGCAAGG CATGGTGGCA GGAAGCCAGG CCCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:969:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 484 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

CTCGAGGTCC C	TGTCCTGCT	CAGTTTCTCT	TCAATGTGGA	AGTCCTGGGA	GGTCAGTCTC	60
ATGAGAATAA G	GTGCTGTAC	TTTCACAGCC	TTCTCAGACT	TTTCTGAGGA	TGGCCTTACA	120
CTTGCCAGCT A	GTGGAGTGA	GCAGAACTCC	TCCTGGTTTC	TGTGGCTGTT	CTCAGAATGC	180
CCTAGTTCAC T	TTCCAGTAA	TACTTTTTTG	GGAACATTTT	GTGTTTCTCA	TTTTCTCAGG	240
TCCCCCAGGC A	CACCATCTT	TCCTCTGCTT	CCTCTCACAC	AGGTGCTGAT	ACTGTGTAGG	300
TTTGGGGCTG T	TGTTCTGGC	CCACTCCCTG	ATATTTTCTG	GGTTTGTCAC	CTAGTTTTCT	360
TAAAAGTATC A	TCTACATGG	TTTTGGTTTC	ACTATCTATT	CTGTCTTTAT	TTGAACACTA	420
GGGGAAATTC A	TTATGCCAA	TCTCACACAT	TGTGTGATTC	CATTAGGCCA	TGAAGGCCGA	480
ATTC						484

- (2) INFORMATION FOR SEQ ID NO:970:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 540 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

GAATTCGGCC	AAAGAGGCCT	AGGCAAAATG	AAAATACTTG	TGGCATTTCT	GGTGGTGCTG	60
ACCATCTTTG	GGATACAATC	TCATGGATAC	GAGGTTTTTA	ACATCATCAG	CCCAAGCAAC	120
${\tt AATGGTGGCA}$	ATGTTCAGGA	GACAGTGACA	ATTGATAATG	AAAAAAATAC	CGCCATCATT	180
AACATCCATG	CAGGATCATG	CTCTTCTACC	ACAATTTTTG	ACTATAAACA	TGGCTACATT	240
${\tt GCATCCAGGG}$	TGCTCTCCCG	AAGAGCCTGC	TTTATCCTGA	AGATGGACCA	TCAGAACATC	300
CCTCCTCTGA	ACAATCTCCA	ATGGTACATC	TATGAGAAAC	AGGCTCTGGA	CAACATGTTC	360
TCCAGCAAAT	ACACCTGGGT	CAAGTACAAC	CCTCTGGAGT	CTCTGATCAA	AGACGTGGAT	420
TGGTTCCTGC	TTGGGTCACC	CATTGAGAAA	CTCTGCAAAC	ATATCCCTTT	GTATAAGGGG	480
${\tt GAAGTGGTTG}$	AAAACACACA	TAATGTCGGT	GCTGGAGGCT	GTGCAAAGGC	TGCACTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:971:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 289 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

GAATTCGGCC	TTCATGGCCT	AGCCAGTCTC	AGCACTTAAA	CAACCAGGTG	TTGAAGGACT	60
ATGTTCCAAA	GAACAGAAGA	GAGTATGGTT	TGCAGATGGT	ATATTGCCCA	ATGGTGAAGT	120
TGCAGATACA	ACAAAATTAT	CATCTGGAAG	TAAAAGATGT	TCTGAAGACT	TTAGTCCTCT	180
CTCACCTGAT	GTGCCTATGG	TAAGGAATTC	AAAGAATACT	TAATTGACTA	AACAAAATTT	240
TATTTCGTAG	ATAATTCCTG	GTGTGATTAT	TAGAGTGCTT	TTTCTCGAG		289

- (2) INFORMATION FOR SEQ ID NO:972:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 418 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

GAATTCGGCC	TTCATGGCCT	AGAGCTTGGG	AGGTTGAGGC	TGCAGTGAGC	TATGAGCTGC	60
ACCACTGTAC	TCCAGCCTGG	GTGACAGGGC	AAGACTCTGT	CTCAAAAAAC	AAAAACAACA	120
ACAAAAACTT	TATTCCTAAA	AAGTGCTGAC	CCAGAGATAA	GAAGCAAGCA	CATGGTTGGT	180
AAAATGACAT	CAGTGAGCTT	GCTTTATGCA	GGGTTGCCCC	AAACCTTCAA	TTTGTAAAAC	240
TCAAAATATC	TGGAAAGCTT	GGTGAGGCGA	GGCGGGACTG	TAACTCAGCA	CTCACCGCAG	300
GGTGAGACCC	TTAGGGCAGC	GGGTGCTACA	CTGAACAAAG	CGGTGAACAG	CCCCCTCGTG	360
AGAGGGGGTT	CTTGGCAGAT	GACGCCAGCA	GCTGACAAAC	AGGCAAGTGC	AACTCGAG	418

- (2) INFORMATION FOR SEQ ID NO:973:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

GAATTCGGCC	TTCATGGCCT	AGATTTGTAA	AAGATTTTCC	TAGATTTACT	GTGTTCTGGA	60
TCTAGCTTGA	ACGTGAATGT	TTGTATAGTA	CGTTTTCTTA	ATATTTTTA	GTATTCATAG	120
TATATAATCA	TACTAAACTT	GAGAAACTGG	AAGAATCAAG	TCTTCCTCAG	TTCTGTTTAG	180
ACTTTCTAGT	TTTTTTTAAG	GATACTTCCA	TATCTTCTGT	AAGCTACACA	GTGAGCTTCA	240
TTTTTGCACA	GTTATAATAC	ACTCTCGAAT	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:974:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 379 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

GAATTCGGCC	TTCATGGCCT	AGGGTTCGAT	GATAAGCACA	GGCGGCAGCT	GGATTGCAAG	60
TGGAGTGGTA	ATGGCCAGAA	CAGCCTCTTT	CTGTTTTGCA	TTTAGTCGAG	GATCCAACTG	120
TTCATCCCAT	TGTCTGTTAG	GACTCCATGG	TATGGTGGGA	GTCATACTGA	TGTCTGGAAA	180
CAAAACCCCA	TTGTCCTTGA	TCCTGTCTAG	TGCATAGTGC	ATTTCACAGA	GGGGTAATCG	240
ATTTAATTGA	AACTGAAGTT	CAACCTGTGT	GTCACAGTCA	GGCCGAAGAT	TAAGTTCTTC	300
ACAGCATTCC	CTAGATAGCC	TTAAAAATAT	ATATTCCTTT	GTTTTTTCTT	CAATAGTAGC	360
TTCCTAGACC	TGCCTCGAG					379

- (2) INFORMATION FOR SEQ ID NO:975:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 417 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

GAATTCGGCC	TTCATGGCCT	AAGAGAAAGA	GAGTGAGAGA	GAGAGAAA	GAGAGAGAGA	60
GATGCTGTTG	AATCAGAAAC	AGATCAACAG	CCCAAAGATT	TTCCTGTCCC	TGGAGTGCCA	120
GCCCCAGGAA	GCTCCAGGGC	TGAGTGGTCA	GGAGCCAGTT	TCTCCAGCCC	CTCCTCCCCA	180
CAACCCCTAG	TGGGGAGGGG	CAGCTGTCCA	TTTGCCCAAA	GTATTAATGC	AACTGAAGCT	240
GTGATATTTC	CAACGACTGT	AGGAGGAAAA	ATTAAGGGGA	GAGAGGAAAA	CAAAACCAAC	300
CAACCCCTAA	AATCATTTTC	TTATTGTACA	TAACGACCTC	ATTCTCCTGT	ATATGCGGAA	360
GATATAACCT	TATATTTGGT	AAGTGTTTCT	TGTGCTATTT	TATCACGCGA	CCTCGAG	417

- (2) INFORMATION FOR SEQ ID NO:976:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 154 base pairs
 - (B) TYPE: nucleic acid

WO 98/454	137	PCT/US98/06956	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:		
	GAATTCGGCC TTCATGGCCT ACACAGAAAA ATTTCAACAA TAAAAGTTCT AAATAGTTAC ATGTGTGTTA TATCATTTAT GGCTCATTTT GTATTTTAT TAAAATCCCA ACAGTAACAG CAATACAACT CGAG	TTAAAAGTAT	60 120 154
	(2) INFORMATION FOR SEQ ID NO:977:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:		
	GAATTCGGCC TTCATGGCCT AAATTGTTCT TTGCTCAAAT AAACTGTTAA GCAGACTCTA TTTTGATCCC CAAATTTGAT TTAGATTTGG GGCCATTAAA TAATAATAAC CCTACTGGAT GAGAATAAGT GTTTCTCAAT TTCTGGTGAT TGTGTCCCCA CCCAGAATCT CATCTTGAAT TATATTCCCC ATAATCCCCA GCAGGACTCG AG	TTTCACTATT ATGGTTTGGC CGTGTCAACG	60 120 180 240 252
	(2) INFORMATION FOR SEQ ID NO:978:		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:		
	GAATTCGGCC TTCATAGCCT AGTTTAGTTC TCAGAATTCT TCATATATTT TTTTCCATCA GATTATTTG TAAATATTTT CTCCCAGTCT GTGACTTGCT TCTTAACAGT GTCTTTCACA CAACAGAAGT TTTTAATTTT AATGAGGCTC TTTTTTCATT AGTAGATTGT GCTTTTGGTT TTGTATCTAA GAAGCCATCA GATCGCTCGA G	TTTTCCATTC AACTTAATTT TTGAACCCAG	60 120 180 240 251
	(2) INFORMATION FOR SEQ ID NO:979:		
	(i) SEQUENCE CHARACTERISTICS:		

- (A) LENGTH: 534 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

GAATTCGGCC	TTCATGGCCT	AGAAGGCTTC	TGAATAATTT	CTCAAAACTA	NCTTTCCATT	60
TNAGTACACG	ATTTGATAAA	CATAGCACAT	TAGATAGGTA	TTTAGCAATT	TCTTCTACCA	120
ACTACACTTT	GCCCTCACTA	AGGGTTAGAG	TATGATTTGA	AACAATTTCT	ACATATAAAG	180
CATCTTTAAA	TAAGTTTTGT	GTTCACTGAA	CTGAGACTTC	TTTCACTTAT	GTACCTATGG	240
AAGTTAATCT	GAGCATACAC	ATATATACAT	ACTTGCATAC	ATATGTGTAC	ATATGTTTTT	300
TAAGTAAGTN	ACTTTTACCA	TTAGAATAAA	CCTAGACACT	ACAGGGACAA	CTCTGGGGAA	360
${\tt CAGGGCGGTC}$	TGCCTTAACA	ACCCTTCTCT	AGGTTGAGGA	AGGCAGGTAT	AGTTCACTGA	420
AGGATGTGAT	GAGGCTGTAG	TAAGTCTTCT	CATCATCTGT	TAATCCTGCG	TTGCCTGGTC	480
TCACCACCAC	AGCTACGTGC	ACATCTGCTT	CCTCAGCAGC	ACTGGCCTCT	CGAG	534

- (2) INFORMATION FOR SEQ ID NO:980:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 223 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

GCTCGAGTGT	CGTGCTATCT	CTAAATTGTG	ATCACTAAGA	ACCGCTGCGG	AAACAGTAAC	60
TGTTTCTTTT	ATTTTTGACA	TTTTAGTTTG	TAATTTATCC	AATTCTTTCT	TCTTTTGATA	120
AGTCTCCATT	CTCTTTACTT	CACGGGTATT	TTCAAATTCA	TTAATCATTT	TATCACAGTG	180
CCACTTGTTA	GACCCTAATG	AACGATGTCA	CCCTCTTATC	AAA		223
CCACTTGTTA	GACCCTAATG	AACGATGTCA	CCCTCTTATC	AAA		

- (2) INFORMATION FOR SEQ ID NO:981:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 481 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

GAATTCGGCC	TTCATGGCCT	AATTACTTGA	CCCGTAATAG	GGTTGTGGCC	GTTTTCTGAT	60
GCCTAAGTAT	TATACAGAGC	CCACAATGGC	CAGTTTACTA	CCAGAAAGGG	CTTCAGTAAG	120
ATATTCTTGG	ACTTGATACT	TTCTTCAGAT	CCTCTTTGTG	CCAAGATAAT	TTATCCAGTC	180
ATTGGGAATA	GTAAGTTTCT	GTGTAACCCA	TCTCAATTAT	AGAAGCAAGT	TCAGCTTTAT	240
GTATTTGTAT	GGGGAGTTGA	AGATTCAGAT	AGAGGTATTA	AGATGTGTGG	CATTTACTTA	300
AACCATCACA	TTTTTTTCTT	TCTACGCCCC	CTTGCCTGTA	AAACACCTGG	GAAGTTCCAC	360
TGGTGTCATC	CATCCTGATG	CTTCAGACCA	CCCTCCCTTC	TTCACAGACC	GTGTCACTTT	420
GCCTGTGGGT	GGGGGCTAGC	CAGCCACCAC	CCTCTTTTCT	GTGCTGCCAG	CCAATCTCGA	480
G					•	481

- (2) INFORMATION FOR SEQ ID NO:982:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 293 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

TCCGTGTCCC	CTCCTCCCTC	TGCCCCCAGT	GTTTCTTCTG	ATTTTTTTT	CCCCTTTCCC	60
TCCCTCCCTC	TCCGCATTCT	TCCCTTGGTT	CAGCACAGGT	AAAACGGTTC	CCCTCCCTCC	120
CTGCCTTCAT	GGATCACCAG	CTCACGTCAT	GTTGCCTTCT	CTTTTCTTTG	TGTGTGTGTT	180
TATTTAAGTT	ATTTTTCTTC	CTCCTCTCCC	TTTTCTTTTT	GGCCCTCCCT	CCCTCCCTCT	240
TCTGCCATGT	AACTGGAGGA	TGTGCTATGA	GTTTGCAAAC	AGCCGGACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:983:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 334 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

GGTGAGGATG	GTGGCTGTGG	TTGTGTTGGT	GGCTGTGATG	GTGAAGGTGG	CTGTGGTGGG	60
GATGGTGACT	CTGATGCTAA	TGTTGGTTGT	GGTGATGGAG	GCAGCTGTGG	CAAGGATGGT	120
GACTTTGGTG	GAGAAGGTGG	CCATGTTGGG	GCTAGTGGCT	GTGGTTGTGG	TGATGGCCAT	180
GGTGAGGATG	GTGTTAAAGG	TGGCTGTGAT	GAAGATGGTG	ACTGGGGTAG	AAATGGTGAC	240
TGTGATGGTA	ATGTTGGCTG	TGGTGATGAA	GGGTAGTTAT	GGTGAGGATG	ATGACTATGG	300
TGGTGAAGGG	GCCATAGTGG	CAACGGCACT	CGAG			334

- (2) INFORMATION FOR SEQ ID NO:984:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 631 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

GAATTCGGCC	TTCATGGCCT	AGGGAAAGAG	TAGGGGTGGA	GGGGTAGGAG	GATTTACTCT	60
TCCAGCGAGA	GCTACGCGCA	TCCCATCCTC	CCCCTCCCC	CTACCCGGGC	TCCGGCNTGG	120
AGGCGGGGCG	TGGCCGGCCT	GCTTTGGGAG	GGGAGGGGCT	TCCCTTACAG	TGCTGGGCTC	180
TGCCAGGACG	GCTGTGGGGT	CGCCTTACCT	CGGGGTATCC	ACTCTGCAGT	CGACCAGTTC	240
CCGCCAGGAG	CAAAGGGTAG	GAAGGAGAGC	AGGATCTGCT	GTAGGAACGC	AGCTACCGCG	300
CCACTATCAC	GAAGAAACAG	CAGGCTCGGG	GCACGAGACG	AACTGGAGAC	CGCGCTGCCT	360
AGCTGGGTAA	CCTGGGAAGC	AGAGGGTAAT	AAGTGGCGCC	TTAAGATAAC	CCTGTAGCAG	420
CAGCAGTGGC	GGCCAAAGGA	GGCTGCTCAG	GGAACAAGCG	GCTGŢAGTAG	TCTGTGGGGC	480
GACTGGAGTG	ACCGAAGCCA	AGGCAGTTTA	GTGCCTCTCG	TGTTCTTATT	TTTTAACCTC	540
TGACTATGCA	ATTCTGAAAC	CTCCCCCATT	CGGGGGACCA	GACAGCCTGA	TAGACACCTT	600
CCACTCTCCT	TCCTCCCGCC	GTGGTCTCGA	G			631

- (2) INFORMATION FOR SEQ ID NO:985:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

GAATTCGGCC AAAGAGGCCT	ACTGCCTCGG	TTTCTACCTT	TGCCAAATGA	GTTGATAGAT	60
TATCGCTTTT TTTCCAGCTG	TCATACTCTA	GGAGTCTGAA	TTGTAAAATC	AAAGAAGCAT	120
TTCCCAGAAA AGTTTTTGTC	AAAAATTTGA	TTTACATAAC	CTCAGAAATG	TGTATTGCTT	180
TAAAAATTAT AAAGTTCATG					240
ACTCCCCTGC AAGATAGATC	TCTTTTTAT	AGACAGAAAA	TAAATTCAAA	GAGGTTTGTT	300
ACTTGCCCAA GGCCACCACT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:986:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 239 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:
- GAATTCGGCT TTCATGGCCT AAAATGTTTT TCAATTAAAG ACTTAAATAT TACACTTTTA

AAACTTTTTA TTATGGAAAT CTAAAAAAAA TTCACCAAAT GAGAGAGAC ATTACAATGA ACCACCACAT ACCCATCACC CATTTTCAAC AATTATCAAC ACATGGCCTA TCTTGTTTCC TCCATACCTT CAGACACCCT CCGTCCACAA ACTGGGTTAT TCTGAAGCAA GCCTTCGAG

60

120

180

239

- (2) INFORMATION FOR SEQ ID NO:987:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 695 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

AAAAGTTCAG	GGACTTTGCA	CCCTGTGGGG	TACTCAGATG	TCCAGCCGCA	CTCTCTACAT	60
TAATAGTAGG	CAACTGGTGT	CCCTGCAGTG	GGGCCACCAG	GAAGTTCCGG	CCAACTTTAA	120
CTTTGCTAGT	GATGTGTNGG	ATCACTGGGC	TGACATGGAG	AAGCTGGCAA	GNGACTCCNA	180
AGCCCACCCC	TGTGGTGGGT	GAATGGGAAA	GGGAAAGAAT	TAATGTGGAA	TTTCAGAGAA	240
CTGAGTGAAA	ACAGCCAGCA	NGCAGCCAAC	TTCCTCTCGG	GAGCCTGTGG	CTTGCAGCGT	300
GGGGATCGTG	TGGCAGTGAT	GCTGCCCNGA	ANGCCTGAGT	GGTGGCTGGN	GATCCTGGGC	360
TGCATTCGAG	CAGGTCTCAT	CTTTATGCCT	GGAACCATCC	AGATGAAATC	CACAGACATA	420
CTGTATAGGT	TGCAGATGTC	TAAGGCCAAG	GCTATTGTTG	CTGGGGATGA	AGTCATCCAA	480
GAAGTGGACA	CAGTGGCATC	TGAATGTCCT	TCTCTGAGAA	TTAAGCTACT	GGTGTCTGAG	540
AAAAGCTGCG	ATGGGTGGCT	GAACTTCAAG	AAACTACTAA	ATGAGGCATC	CACCACTCAT	600
CACTGTGTGG	AGACTGGAAG	CCAGGAAGCA	TCTGCCATCT	ACTTCACTAG	TGGGACCAGT	660
GGTCTTCCCA	AGATGGCAGA	ACATTCCTAC	TCGAG			695

- (2) INFORMATION FOR SEQ ID NO:988:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 314 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

GAATTCGGCC	TTCATGGCCT	ACTCAGAACA	ATCACTGCAT	ATCCCATCTT	AAAGGCAAAA	60
CCCAAACCAG	AAAAACCCCA	CTCAGGTCTT	GCTGACCCAA	CACTACAGTC	ACTGTATTTG	120
AGACCCCTTT	TTCTTGAAAA	AGGGACTTCA	CTTTTTTGAG	CAGCATTCTA	TGGTTCTTTC	180
CACACAGCAA	TTGACGCATC	TCACGGCACT	GCTCTCTGCT	GGGCAGAGAG	CAAACACAGA	240
CAGCCACCAT	CCCCATATTC	GTAGTAAGAG	AAACTCCAGA	AACGCAGCCA	CCGTCCCCCT	300
AGACCTGCCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:989:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 687 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

GAATTCGGCC	AAAGAGGCCT	AGGAGCTCCC	CCATGGATCA	TGGCGTTAAT	GTTTACAGGA	60
CATTTACTAT	TCTTAGCATT	ATTGATGTTT	GCTTTCTCTA	CTTTTGAGGA	ATCTGTGAGC	120
AATTATTCCG	AATGGGCAGT	TTTCACAGAT	GATATAGATC	AGTTTAAAAC	ACAGAAAGTG	180
CAAGATTTCA	GACCCAACCA	AAAGCTGAAG	AAAAGTATGC	TTCATCCAAG	TTTATATTTT	240
GATGCTGGAG	AAATCCAAGC	AATGAGACAA	AAGTCTCGTG	CAAGCCATTT	GCATCTTTTT	300
AGAGCTATCA	GAAGTGCAGT	GACAGTTATG	CTGTCCAACC	CAACATACTA	CCTACCTCCA	360
CCAAAGCATG	CTGATTTTGC	TGCCAAGTGG	AATGAAATTT	ATGGTAACAA	TCTGCCTCCT	420
TTAGCATTGT	ACTGTTTGTT	ATGCCCAGAA	${\tt GACAAAGTTG}$	CCTTTGAATT	TGTCTTGGAA	480
TATATGGACA	GGATGGTTGG	CTACAAAGAC	TGGCTAGTAG	AGAATGCACC	AGGAGATGAG	540
GTTCCAATTG	GCCATTCCTT	AACAGGTTTT	GCCACTGCCT	TTGACTTTTT	ATATAACTTA	600
TTAGATAATC	ATCGAAGACA	AAAATACCTG	GAAAAAATAT	${\tt GGGTTATTAC}$	TGAGGAAATG	660
TACGAGTATT	CCATGGTCCG	TCTCGAG				687

- (2) INFORMATION FOR SEQ ID NO:990:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 677 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

GAATTCGGCC	AAAGAAGGCC	TAGAGCCCTT	CTGTCCCTTC	TACCATGTGT	GGATGCAGTG	60
AGAAGGCACC	GTATCTCTGA	AGCAGAGAGC	CCGCCCTGGA	CACTGGATCT	GCTGGCACCT	120
TGATCTTGGA	CTTCCCAGCC	TCTAGAACTG	TGAGAAATAA	TTTTTTGTTG	TTTACAAATT	180
ACCCAGGCTA	AGGTGTTTCA	TTGTAACCTG	AATGGACCAA	GCTGGTGTGA	CCCTGTTGGA	240
AAACTGGCAG	TATCTACCAA	AAGCCGAACA	TACGTATAAA	CTGATCCAGC	AGTTCCACTC	300
CTGGGTATGT	ACACCACAGA	AAGCTATGTC	CACCGAGACA	TTGGCAAGAA	TGTTTCTAAC	360
CACACGCTGA	CTGTAGCCCC	AAACCTGAAA	CAACCCAAAT	GTCCATCCAC	CAACCCAAAT	420
GTCCATCCAC	AGTTGAAGCT	ACAGTGAAGT	CACAGGGTCG	AATACTACTG	CACAGCAACG	480
AATATGAATG	AAAATATCGC	TATGCACAGC	AACATGGATA	AATTTCACAG	ACATGAGGTC	540
AAGCAAAAGA	GGTCAGAGTC	CTCATCATCA	AGAGAGAATT	CATTGTATGA	TTCTCTTCCT	600
ACAAAAAGTA	CAGAAATAAG	CAAAACTGAT	CCATGGTGTT	AGAAGCCAGG	GGAACAGTTA	660

ACAAGGGAGC ACTCGAG 677

- (2) INFORMATION FOR SEQ ID NO:991:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 445 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

GAATTCGGCC	AAAGAGGCCT	AAGAAGCTGC	TTCCTCCTGG	GAACAACCGC	CTCCCGCTCC	60
TAGCAGGTTG	CTACTGCCCC	GAACCCGCGC	TGCAGGGAAC	AGCGGGGCAA	ACAAAACCAA	120
TAGAGCCATG	GCGACTCCCT	CTGCTGCCTT	CGAGGCCCTT	ATGAATGGTG	TGACAAGCTG	180
GGATGTACCC	GAAGATGCTG	TTCCATGTGA	ACTGCTTCTT	ATTGGAGAGG	CTTCATTTCC	240
TGTGATGGTG	AATGACATGG	GCCAGGTCCT	CATTGCTGCC	TCCTCCTATG	GCCGTGGCCG	300
CCTGGTGGTC	GTGTCCCATG	AGGACTACTT	GGTGGAAGCC	CAGCTCACGC	CCTTTCTCCT	360
GAACGCAGTG	GGGTGGCTTT	GCTCTTCCCC	TGGGGCTCCC	ATTGGTGTAC	ACCCATCCCT	420
GGCACCTTTG	GCCAAAATCC	TCGAG				445

- (2) INFORMATION FOR SEQ ID NO:992:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 392 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

GAATTCGGCC TTC	ATGGCCT ACTGTGATTT A	AAAATCTTGC I	IGTGTGGCTT	GGGTTGTTTG	60
TGTTGGTTCC AAAC	CCCTGAA TCTTTTGGGG 1	CTTCAATTT C	STGGGCATGT	CAGTGGAAAT	120
TCTAAGCTTT GTT	TAATGGT GTGTGTGTC	CTGTCTGTCT C	CTGTGTGAGT	GTGTTTAGAA	180
ATTGGCTTCT CTG	GGTTCCT CGCTCGTCTT C	CTGGAAGGTG G	GGGTTATAGA	CATGCTGGTG	240
AATTCTGAAT GTT	TTATAAA TTAGACTATT A	AACGGAGTTA A	AATTGAAGAA	ACCTTCTGTC	300
ATAAGACCTT CCAC	GGAATTC CATTCCAAAT C	GAGGAAATGC A	ATAAAGACTT	GTCCACTTGG	360
CAAACATTGG GTG	TTTGGGA GGTGGACTCG A	AG			392

- (2) INFORMATION FOR SEQ ID NO:993:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 359 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

60	TGGCTGTGAC	GTGCTGGTGG	CTTGGTCCTG	AGGCGGCTCC	TTCATGGCCT	GAATTCGGCC
120	GGGTGGAGGT	ATTTCCGAGC	GGCCGAGTTC	GCTCCAGTCT	GCCTTGTTCC	AGTGCGGGCG
180	TGGACTTGGG	CTTTCACTGT	GGTTGAAGGC	GGAAGAGAGT	CTGAGCTCTT	GGTGTCCCCA
240	ACCTCTTTCA	TTAATAATAT	TGAAACTCCA	CAGTATTTCA	TATTCTGGAG	AGTATCTCCG

TTTCCTAATT GACTATGCTG AATTGGTGTT TATGATAACT GATGCACTCA CTGCTATTGC CCTGTATTTT GCAATCCAGG ACTTCAATAA AGTTGTGTTT AAAAAGCAGA AACCTCGAG	300 359
(2) INFORMATION FOR SEQ ID NO:994:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:994:	
GAATTCGGCC AAAGAGGCCT AGACTGTCAG CTGTGAGTGG CCAGTACAAC AAATGCTTTG GCTTTCAGTT GTCATTCTGA TGTCTTGCAA CATATCATCG TGTTTGATTC TCGAG	60 115
(2) INFORMATION FOR SEQ ID NO:995:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 633 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:995:	
GAATTCGGCC AAAGAGGCCT AGTGGAGACA AAAGCATGTG ATCCCAATTT GCTGGGATAT CCTCTCCTGC ATTTCAAACA CCTTCACTCA GTGTCAGCCA CAGCGGCCAC CACATAGCAG CTGGCCCCGC ACCTTCTCTG GAACAGTCTG GAGATGCAAG GTCAGGGTGG AAGCCTGGT TCACCCTTGA AAGAAAGGAT GGCTAGGGGT AAACAAGACG AGCAACTCCC TGGAATGCAG GGAGCCAAGA AGGCCAGCCG AGGATAAGGC TCTGCCTCCC CAACGGCGAG GGTTTCCTTT CCTCTGGCTC ATTANAACTG CACAGCCCCC GGGGAGATGT TGAACATGGC AGGTCGAAT CGCTGGCCTC GGAAGGGAGA ACTTCAGCAT CCCCACCCTTC TTCAGCATCT CATGGACTTT CAGCTCATGG CTCTGTGGCT TGCCCTGCAG CTCTGTGTGG TAGTCAAAGG TAAGCCTGTC CAACACCGCC TGTTCCTCCT CATCCACGGT GGCCATGGAG CGCTCCTTGT TGATCTTGTC CAGGTTCACC AAAACGCACT TCCCGGGCTC GAG	60 120 180 240 300 360 420 480 540 600 633
(2) INFORMATION FOR SEQ ID NO:996: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 462 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:996:	
GAATTCGGCC AAAGAGGCCT AGTTGATTCT CAGTTCATGG TGGAGTCATT CAAGTTTATT TCTGGCATCT TGGCAGCCCT GAGTGCCATG ATCTCTCTAG AAATTCCGCA AGTCAACATC ATGACAAAAA TGGATCTGCT GAGTAAAAAA GCAAAAAAAGG AAATTGAGAA ATTTTTAGAT CCAGACATGT ATTCTTTATT AGAAGATTCT ACAAGTGACT TAAGAAGCAA AAAATTCAAG AAACTGACTA AAGCTATATG TGGACTGATT GATGACTACA GCATGGTTCG ATTTTTACCT	60 120 180 240 300
423	

TACGATCAGT	CAGATGAAGA	AAGCATGAAC	ATTGTATTGC	AGCATATTGA	TTTTGCCATT	360
CAATATGGAG	AAGACCTAGA	ATTTAAAGAA	CCAAAGGAAC	GTGAAGATGA	GTCTTCCTCT	420
ATGTTTGACG	AATATTTTCA	AGAATGCCAG	${\tt GATGTACTCG}$	AG		462

- (2) INFORMATION FOR SEQ ID NO:997:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 548 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

GAATTCGGCC	AAAGAGGCCT	AGCTGGTAAC	ACATGTGAAC	TCAGGTAAAG	TCATCGAGCA	60
TTTTACTGAC	TCTATTCCTC	AATAAAGTAC	TGGGAAAAAA	CTCATAAGAA	TGACAAAAAC	120
AACATACTCA	GGTATGCGAG	CAGAAGCCTC	TGACACAGCT	TGTCTTCGGG	GCTTAACTAA	180
ATGATCTATT	TTAATGAGGG	AATCCGTGGA	AAGGCATGCG	TTTTCAGGCT	CATTTTCTGC	240
TTCGATGCTT	TGTCCAGAGA	GTTGGAATCT	CAACGTGTGT	TTCATGTGAG	GCTCCTTAAG	300
AGGGTGACAT	TCAACATCCC	AAAACTGGGC	ATAATCCCCC	CTACCTCTGG	GCAAAAATGT	360
GATGGAGACT	TTTTGGATCC	CATGGCTTTC	CAGCAGACCA	GAAATAGGAG	AACATCTGAA	420
TGCTGCATAG	GTAGCTCTAA	AAACATCTCC	ACTTTCATCA	ACTCCCTTGA	CATAAGGTGG	480
CACCACAGAC	GTGAAATGGC	ATCTGTCATC	TTTAGCGCCA	CCTTATGTCA	AGGGAGTTGA	540
TTCTCGAG						548

- (2) INFORMATION FOR SEQ ID NO:998:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 572 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

GAATTCGGCC AAAGAGG	CCT AGTTTCCCTT	TCTGTATTTT	ACTACTAAAT	TAGAAAGCAC	60
TGGTTATGTA ATAAGTT	ACT ACATTGCTTT	GGTTGAGTAA	AAACAAGAGT	ATATATTTTT	120
CTTGTTTCTT ATTTNCT	AAA CCCTTAACTC	CTGCTGAGGT	CATAACAACC	TCAGTCTAAG	180
CTCTGTGTCC ATCATAC	TGT TAACTTAAAC	AAATGGGTGG	TGGGGGTGGG	AAGGGTAATA	240
CAGTCCTGCC ATTGCCT	ACC AGTAGGAGAG	TCCAAACAGA	ACACTCTTTT	GAGTAGCAAT	300
TATTTAATTT GCCCAGI	CAA GGCACCGTGT	TTATATACTA	TTTCACATTG	AATTTGATTA	360
TGCCCTACAG ACCTGGC	TGG TCAAGGATTT	GATATACACA	TATTGGCTTG	GGATTCGAGC	420
TTTCTTTTTT ATTTAAA	TATATTTAAA AAT	ATATATTATA	TATATACATA	TATACATAGC	480
TATATCTGTA TATATAT	TGG GTATGTTTTA	AGGATTTTTT	CGCATGAGCG	CAGCTGTTGC	540
GATAAATTGA CCGATTG	GGA GGTATTCTCG	AG			572

- (2) INFORMATION FOR SEQ ID NO:999:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 629 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

GAGAATCTAG TCTCAGTGAC AACCCAGCCT GATTTGGAAG GGGGGAGTCA TAAGGGTTTT CGCCCAGCAC ACCAGGGTTG CAGCCTGCGC AAGACCTTCC ATAGCTATTT CTGCCGGCTT GCTTCCTTCC CTTCCCAGCC ACGATGAGGC AGCTGAGGGT TGCCACGGAA ACCGGCTCTG TCCTCCCACT GGAGGCTGCC AGCTCTGATT TCCTGCAGAG TTAAGAAGGA GGCGGCAGTG GGGGTCACCC AGGCGTGAAG ATGGGTTTCC CTGGGGATAT CCTGCCTCCT GCCAATCACA GCGTCTCTCT GGGAATCCTG GGGGTGCCTG GAGGCTGAGG CCCCCAAACC CCAGTGCTGC TCTGAGAAGA GACTAGCCTC TGGGACATTC AGAGGTCTGG GGTTCTTTTA TCTCCCTCCA GCTAAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC							
GAGAATCTAG TCTCAGTGAC AACCCAGCCT GATTTGGAAG GGGGGAGTCA TAAGGGTTTT CGCCCAGCAC ACCAGGGTTG CAGCCTGCGC AAGACCTTCC ATAGCTATTT CTGCCGGCTT GCTTCCTTCC CTTCCCAGCC ACGATGAGGC AGCTGAGGGT TGCCACGGAA ACCGGCTCTG TCCTCCCACT GGAGGCTGCC AGCTCTGATT TCCTGCAGAG TTAAGAAGGA GGCGGCAGTG GGGGTCACCC AGGCGTGAAG ATGGGTTTCC CTGGGGATAT CCTGCCTCCT GCCAATCACA GCGTCTCTCT GGGAATCCTG GGGGTGCCTG GAGGCTGAGG CCCCCAAACC CCAGTGCTGC TCTGAGAAGA GACTAGCCTC TGGGACATTC AGAGGTCTGG GGTTCTTTTA TCTCCCTCCA GCTAAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	GAATTCGGCC	AAAGAGGCCT	AGAGGGGAGC	ACGTCTTTTC	CTTGAGTGTA	ATTCACTAAT	60
CGCCCAGCAC ACCAGGGTTG CAGCCTGCGC AAGACCTTCC ATAGCTATTT CTGCCGGGTT GCTTCCTTCC CTTCCCAGCC ACGATGAGGC AGCTGAGGGT TGCCACGGAA ACCGGCTCTG TCCTCCCACT GGAGGCTGCC AGCTCTGATT TCCTGCAGAG TTAAGAAGGA GGCGCAGTG GGGGTCACCC AGGCGTGAAG ATGGGTTTCC CTGGGGATAT CCTGCCTCCT GCCAATCACA GCGTCTCTCT GGGAATCCTG GGGGTGCCTG GAGGCTGAGG CCCCCAAACC CCAGTGCTGC TCTGAGAAGA GACTAGCCTC TGGGACATTC AGAGGTCTGG GGTTCTTTTA TCTCCCTCCA GCTAAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	GACTGTGGTT	CCAAGGAGGT	GCGACCTTTA	AAGGGAATTG	GCCCTTCTTT	GAAGGCAGGT	120
GCTTCCTTCC CTTCCCAGCC ACGATGAGGC AGCTGAGGGT TGCCACGGAA ACCGGCTCTG TCCTCCCACT GGAGGCTGCC AGCTCTGATT TCCTGCAGAG TTAAGAAGGA GGCGCAGTG GGGGTCACCC AGGCGTGAAG ATGGGTTTCC CTGGGGATAT CCTGCCTCCT GCCAATCACA GCGTCTCTCT GGGAATCCTG GGGGTGCCTG GAGGCTGAGG CCCCCAAACC CCAGTGCTGC TCTGAGAAGA GACTAGCCTC TGGGACATTC AGAGGTCTGG GGTTCTTTTA TCTCCCTCCA GCTAAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	GAGAATCTAG	TCTCAGTGAC	AACCCAGCCT	GATTTGGAAG	GGGGGAGTCA	TAAGGGTTTT	180
TCCTCCCACT GGAGGCTGCC AGCTCTGATT TCCTGCAGAG TTAAGAAGGA GGCGGCAGTG GGGGTCACCC AGGCGTGAAG ATGGGTTTCC CTGGGGATAT CCTGCCTCCT GCCAATCACA GCGTCTCTCT GGGAATCCTG GGGGTGCCTG GAGGCTGAGG CCCCCAAACC CCAGTGCTGC TCTGAGAAGA GACTAGCCTC TGGGACATTC AGAGGTCTGG GGTTCTTTTA TCTCCCTCCA GCTAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	CGCCCAGCAC	ACCAGGGTTG	CAGCCTGCGC	AAGACCTTCC	ATAGCTATTT	CTGCCGGCTT	240
GGGGTCACCC AGGCGTGAAG ATGGGTTTCC CTGGGGATAT CCTGCCTCCT GCCAATCACA GCGTCTCTCT GGGAATCCTG GGGGTGCCTG GAGGCTGAGG CCCAGGGAAG CCCCCAAACC CCAGTGCTGC TCTGAGAAGA GACTAGCCTC TGGGACATTC AGAGGTCTGG GGTTCTTTTA TCTCCCTCCA GCTAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	GCTTCCTTCC	CTTCCCAGCC	ACGATGAGGC	AGCTGAGGGT	TGCCACGGAA	ACCGGCTCTG	300
GCGTCTCTCT GGGAATCCTG GGGGTGCCTG GAGGCTGAGG CCCAGGGAAG CCCCCAAACC CCAGTGCTGC TCTGAGAAGA GACTAGCCTC TGGGACATTC AGAGGTCTGG GGTTCTTTTA TCTCCCTCCA GCTAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	TCCTCCCACT	GGAGGCTGCC	AGCTCTGATT	TCCTGCAGAG	TTAAGAAGGA	GGCGGCAGTG	360
CCAGTGCTGC TCTGAGAAGA GACTAGCCTC TGGGACATTC AGAGGTCTGG GGTTCTTTTA TCTCCCTCCA GCTAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	GGGGTCACCC	AGGCGTGAAG	ATGGGTTTCC	CTGGGGATAT	CCTGCCTCCT	GCCAATCACA	420
TCTCCCTCCA GCTAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	GCGTCTCTCT	GGGAATCCTG	GGGGTGCCTG	GAGGCTGAGG	CCCAGGGAAG	CCCCCAAACC	480
TCTCCCTCCA GCTAAAGCTA GAGGGACCTC ATTATGTGTC TTACAAGATG TACCCTAAAC	CCAGTGCTGC	TCTGAGAAGA	GACTAGCCTC	TGGGACATTC	AGAGGTCTGG	GGTTCTTTTA	540
COMPOS TIMES AMERICAN CA COCOMPOS O							600
· · · · · · · · · · · · · · · · · · ·							629
							029

(2) INFORMATION FOR SEQ ID NO:1000:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 568 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

GAATTCGGCC	AAAGAGGCCT	ACCTGTATGC	TATTAACACT	CACCACAGCA	GAGAGCTGAG	60
GATTGTGGTT	GCAATTCGGA	ATAAACTGCT	TCTGATCACA	AGAAAACACA	ACAAGCCAAG	120
CGGGGTCACC	AGCACCTCAT	TGTTATCTCC	CCTGTCTGAG	TCACCTGTTG	AAGAATTCCA	180
GTACATCAGG	GAGATCTGTC	TGTCTGACTC	TCCCATGGTG	ANGACCTTAG	TGGATGGGCC	240
AGCTGAAGAG	AGTGACAATC	TCATCTGTGT	${\tt GGCTTATCGA}$	CACCAATTTG	ATGTGGTGAA	300
TGAGAGCACA	GGAGAAGCCT	TCAGGCTGCA	CCACGTGGAG	GCCAACAGGG	TTAATTTTGT	360
TGCAGCTATT	GATGTGTACG	AAGATGGAGA	AGCTGGTTTG	CTGTTGTGTT	ACAACTACAG	420
TTGCATCTAT	AAAAAGGTTT	GCCCCTTTAA	TGGTGGCTCT	TTTTTGGTTC	AACCTTCTGC	480
GTCAGATTTC	CAGTTCTGTT	GGAACCAGGC	TCCCTATGCA	ATTGTCTGTG	CTTTCCCGTA	540
TCTCCTGGCC	TTCACCACCG	AACTCGAG				568

(2) INFORMATION FOR SEQ ID NO:1001:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 543 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

GAATTCGGCC	AAAGAGGCCT	AGTAATACTT	AAAGTGCAAT	TGTTCCAAGG	CTTTTGTTTC	60
CATCATCACA	AATATTATAA	AGAAAGAGCT	ATGTTTAGGG	TGAAGAAGAT	ATGGCACAAG	120
TAATATGTAA	AGAACTTATG	ACTTTCGCAT	CCTCTAGCAA	ACAGTAAGCT	GCCTGTACAG	180
CTGCACACAG	ACGGACTTTA	CACAACAAAC	TCTGGAACTT	CATCATGAGT	GAGATCCAGA	240
GAAAAGTATT	TGCTGGTTCT	TTTGACTGGA	AAAGCATCTT	GGATGTTGAT	GCACTGCTGG	300
GCCAAGCAAC	TGTTGCAATA	GAGGCCTTCC	TCATCCAGTT	CATGGCCACA	TCCAAAGGTG	360
TAACTCTGAG	CAGTGTCCTG	ACACAGACCT	GCAATGCGCA	GGAAGTCTTT	CTGGTAAAGT	420
CTGATGTCAT	CGAGGCTCAA	GCTGTGTCGA	TCAGTGGAGG	TCTTTGGTTT	CCGACATATA	480
${\tt GTCTGTGGAA}$	GAGAATCAGT	ACTCTGGCCA	CGAAGCTTAA	CAACTGTTTC	TGAAGAGCTC	540
GAG						543

- (2) INFORMATION FOR SEQ ID NO:1002:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 592 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

GAATTCGGCC	AAAGAGGCCT	AATTCCACTT	ACGAATTAAC	ACTGTGTACA	TGGCACCTTT	60
GGGCCCATCT	TGCCTTGAAA	GTCCCTGTTG	GATGGAACAG	TGGCATTTTC	CTTCCTTTTC	120
TCAGGACTGC	AAACAGACCT	AATATTTGGC	CTTGCCCTTG	CCTGGGAAGC	TGCTGCTGAG	180
TCTTGTCTCA	GCCGGGCTGT	GCATTCCGAG	CGGCTGCCCT	GCCCTGCGCT	CAGCAGCTGG	240
AATCAATCTG	CCCACCTCCT	TAAGAAGCCA	CTTCATCAGC	GGTCACCCGG	CAGCTGCTCG	300
CCTCCCAGGG	CTGCCGGGCT	AGGGCTTTAT	CGCATTTTTG	AAATTTCAGA	TTTCTGTGTC	360
TGGGCTATGC	CCCTCGAACA	GTAACAGCAC	CGCTTTGCAG	CAGGGAGGAG	ATTTCACCAG	420
GATATGGAGG	GGACAGGAGA	AAAGCCCTCC	TTCCCAGAGT	CCACTGTCAT	TCAGGATTTG	480
CTCTCAAAGA	GGCAAGAAAT	CTCTAAGAAT	GAAAGGAGGT	GTTTTGTTGT	TGTTGTTGTT	540
TTTTGTATGT	ACTGGGAGGA	AATGGCTAAT	CTTGGGTATG	CACACGCTCG	AG	592

- (2) INFORMATION FOR SEQ ID NO:1003:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 584 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

GAATTCGGCC	AAAGAGGCCT	AGGCTCCGTC	TGTTGGGGGG	CGAACACGCC	GCGGTCCTCG	60
TCGTGTGAAG	TAAGAACTCT	GCTAGAGAGG	AAATGGCTGC	TTCATCATCA	TCCTCCTCAG	120
CTGGTGGGGT	CAGTGGAAGT	TCTGTCACTG	GATCTGGTTT	CAGTGTCTCA	GACCTTGCCC	180
CACCACGGAA	AGCCCTTTTC	ACCTACCCCA	AAGGAGCTGG	AGAGATGTTA	GAAGATGGCT	240
CTGAGAGATC	NTCTGCGAAT	CTGTTTTTAG	CTATCAAGTG	GCATCCACGC	TTAAACAGGT	300
GAAACATGAT	CAGCAAGTTG	CTCGGATGGA	AAAACTAGCT	GGTTTGGTAG	AAGAGCTGGA	360
GGCTGACGAG	TGGCGGTTTA	AGCCCATCGA	GCAGCTGCTG	GGATTCACCC	CCTCTTCAGG	420
TTGATACTGC	CTGGATGGTC	ACCTCTGGTG	CGCAGCAAGT	GCAAAGCCAG	TGGGGGACTT	480
TCTCACAGCT	TACATAGCCA	TCCAGAGATC	CACAGCTACG	TCACTGAATT	GTTAATGCAC	540
ATTTGTACTT	GGTTTCTCTG	TATCTATTCA	CAGGCGAACT	CGAG		584

- (2) INFORMATION FOR SEQ ID NO:1004:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 440 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

GAATTCGGCC TTCATGGCCT ACTTTCTCAT TCCCTAAGTC ATTAGAAAGC ACCAGTTCTA

ACTCCAAATG ATGACATGGT	CTTATTTTAT	CTATTAACCA	TAAGCTTACA	GATTCTAGTG	120
AAGAAAAAC TTTAGGAGGC	TACATGGTCT	ATTGGAGAGT	GTAGGCTCTG	CAGTCAGAAG	180
ATCCCTACCC AGGCTTCTGT	CTTTCTCAGT	AAGACTTGGG	ACCACAGCAA	GGTCCGCAAT	240
CTCCTGAGGC TCTGTTTTCT	ATGGTTGGGA	TAACATGGTA	AGTTATTTTC	TTCTAAGTAG	300
TCACACATGG AAATCTTATC	TAAAATTTTA	TACCATTAAC	TTTTATTTCA	CTTATTAACT	360
CATACCATTA ATACTTTACT	TTAGCTATGT	TTGGTATGCA	TGAGTTGATG	AGTGATTAGA	420
GTACTATGAG CGATCTCGAG					440

- (2) INFORMATION FOR SEQ ID NO:1005:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 426 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

GAATTCGGCC TTCATGGCCT ACTCAGTTGC AGATTCTGGC CAACATGGAC AGCCAGCTA	AA 60
AAGAGCTACA GAGTCAGCAT ACCCATTGTG CCCAGGACCT GGCTATGAAG GATGAGTT	
TCTGCCAGCT TACCCAGAGC AATGAGGAGC AGGCTGCTCA ATGGCAAAAG GAAGAGAT	
CACTAAAACA CATGCAGGCA GAACTGCAGC AGCAACAAGC TGTCCTGGCC AAAGAGGTC	
GGGACCTGAA AGAGACCTTG GAGTTTGCAG ACCAGGAGAA TCAGGTTGCT CACCTGGAG	
TGGGTCAGGT TGAGTGTCAA TTGAAAACCA CACTGGAAGT GCTCCGGGAG CGCAGCTTC	
AGTGTGAGAA CCTCAAGGAC ACTGTAGAGA ACCTAACGGC TAAACTGGCC AGCACCATA	AG 420
CTCGAG	426

- (2) INFORMATION FOR SEQ ID NO:1006:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 402 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

GAATTCGGCC TI	CATGGCCT A	AGAGTAGCCA	GGGAGCTGGA	AGTTCCACAG	ATTGGTTTTA	60
ATAAACAAAC TO	CCTCAATG A	ATGAGTGGTC	TTTTGAAGAG	CATGGTTAGA	ACTTGGGATT	120
GTGCTTCTCA TO	ACTACAAA 1	TGTACTTGTA	GCTTAGGTGC	AAAAGGGTAG	GTCAGTGGGT	180
AGCTAACTAC TO	AGGATTGA 1	TTTTCCTGAC	GCTGGTGTTT	AAGTGTCACC	CAGAACTGGC	240
ATATAAAGTG GC	TCATTCAC C	CCAAGTATCT	TCCTTTCCTT	TTTACAAAAT	CCTTGGCTGT	300
TGTGGGGCCT AC	ATCTCTTC A	ATGATTATTA	TTGCATCTGG	TGTCATGTTT	TTCCAGCTGG	360
TGTACTGCTT CC	CTGTAGGC I	PTCTTGATGT	TCACTCCTCG	AG		402

- (2) INFORMATION FOR SEQ ID NO:1007:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 456 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

GAATTCGGCC	TTCATGGCCT	ACTGGTGCCA	CGGGAGGCAG	ACACCAAGTT	CTGGGGTCTC	60
CAGCTGCAGT	GGGTGGCCGC	CAATTGCTTC	TCTCTGTCCA	GACTAATGAG	AACATGGAGA	120
TCACCAGTGC	ACTGCAGTTG	GAATAGCACG	TAAAGAGGGA	GCTGGGAAAG	AAGCTGGGCA	180
AGCTAAAGGA	CATGGTAACC	CTGCCCCATC	CAAGAAGAGC	TGGAAGGCGG	GCACCAGCCT	240
CTGGGGAGGG	GAGGTGTGAA	GCCAGAGGCA	GCTCCAGCCT	GGGGGACAGG	TGACCCCAGC	30 0
ACCCTCCAGG	GCAGTCCTGT	GACTGTTTCT	TGCTTCCCGC	CCTCTGACAT	TTAGTGGTGG	360
GTTCGTTCTT	CCTAGGTCTG	GACATCATCA	TCCCAGCTGG	AGTCATGGAG	CCTCCCAAAC	420
ATAGGGAAAG	AGATGGTGGT	ATAAGAGGCT	CTCGAG			456

- (2) INFORMATION FOR SEQ ID NO:1008:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 564 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

GAATTCGGCC AAAGAGGCCT	AGGATGGCTG	TGTTTGACGG	GTGTTGCTCG	TGACAGTTGG	60
GGTCCTCCTC AGCATCAGTC	TTGACATGGC	TGCAACTGGG	GGGGTCCTCG	GGATCCTCCC	120
GGAATCTCTT CCTCAGCATT	CGCTCATGAT	AAGGTTTCAG	GTGTCTTGAT	GGTTCAGTCC	180
TGGAGAAACA TAAGCATAAC	CTCTACCCCA	AGTTATTATT	TTACCTATTT	CCCAACTTTC	240
TGTTATCAGG TCTCTCCACC	AAACCAGTTG	TTCTGCTTCT	GTCTTTGCAG	CTGGTTTCTG	300
TAGATGCTGT TCAGCTGCTG	ATAAGATCCG	GCCTTTAGGC	AGGCTCAAAA	AATTTAAAGT	360
TAATAATGCG ATTCAATTGC	TTATGGGGTG	TCCTGTAGTA	CCTGTTTTCC	CCCTTTTGCT	420
TCTGCAACTG CTGTTTCAGG	GAGAGATTCA	TTCTTTCCAC	TATGGCNTGT	CCTTCAGAAT	480
TATATGGGAT ATCAGTAATG	TGTTTAATAT	TCCGTATAGA	GAAAAATTTA	GCTAGAGCTT	540
GAGAATTAGG TTCCAATCCT	CGAG				564

- (2) INFORMATION FOR SEQ ID NO:1009:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 661 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

GAATTCGGCC AAAGAGGCCT	AGAAAAAGAT	GTCATTCCGT	AAAGTAAACA	TCATCATCTT	60
GGTCCTGGCT GTTGCTCTCT	TCTTACTGGT	TTTGCACCAT	AACTTCCTCA	GCTTGAGCAG	120
TTTGTTAAGG AATGAGGTTA	CAGATTCAGG	AATTGTAGGG	CCTCAACCTA	TAGACTTTGT	180
CCCAAATGCT CTCCGACATG	CAGTAGATGG	GAGACAAGAG	GAGATTCCTG	TGGTCATCGC	240
TGCATCTGAA GACAGGCTTG	GGGGGGCCAT	TGCAGCTATA	AACAGCATTC	AGCACAACAC	300
TCGCTCCAAT GTGATTTTCT	ACATTGTTAC	TCTCAACAAT	ACAGCAGACC	ATCTCCGGTC	360
CTGGCTCAAC AGTGATTCCC	TGAAAAGCAT	CAGATACAAA	ATTGTCAATT	TTGACCCTAA	420
ACTTTTGGAA GGAAAAGTAA	AGGAGGATCC	TGACCAGGGG	GAATCCATGA	AACCTTTAAC	480
CTTTGCAAGG TTCTACTTGC	CAATTCTGGT	TCCCAGCGCA	AAGAAGGCCA	TATACATGGA	540
TGATGATGTA ATTGTGCAAG	GTGATATTCT	TGCCCTTTAC	AATACAGCAC	TGAAGCCAGG	600
ACATGCAGCT GCATTTTCAG	AAGATTGTGA	TTCAGCCTCT	ACTAAAGTTG	TCGATCTCGA	660
G					661

(2) INFORMATION FOR SEQ ID NO:1010:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:	
GAATTCGGCC TTCATGGCCT AGGAAAGATT TGACTGCTTC TCTCATGCAG GGGAATAAAG CAAAGGCACG TGCAGAGGGA AGTAGGGGTA GAGAGAGGCA AGTTAGCTTC AGAGAGATTT ATTTGCACCC AGTTCTGTTC TACTCAGCCT GACGTTTTAT CATCTTTTTG AAAAGTGGCG TGAAGTGGTG TGGAACACAT CAGAGGGTGA AGCCGAGCAA ATCTGAAAGA GAGCAGAGGA TTTCATATGA TATCCTATGT GTGCTTTCCC CTTCCTTCTT AGGAGCTGGA AGAGGCAGAA TTGATGTCCA CTCGAG	60 120 180 240 300 316
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:	
GAATTCGGCC TTCATGGCCT AGAAACATGC TAGACATTTT GAAGAACCAG CAAGAATGTT AGTGTAGCCA ACAGTGAGGC AGGCAAAGGT GAGTAAGGTA GATTAGTTCA GGGAAGAAAA CATAACATTA TTTAATCCAT TGTGGGCCAC ATTGCACTAT GATAACACTA TCATGTCATA GAGTCTCACC ATTGTTTAAG ATGTTTAAAT TTTTTAATAC GAATATATTC TCACACCCCT CGAG	180
(2) INFORMATION FOR SEQ ID NO:1012:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:	
GAATTCGGCC TTCATGGCCT AGCACTTCCC GAGACTCTCT AGCCTTGGAT AAAGAGAGAA TGGATAAAGA TCTGGGATCT GTGCAGGGAT TTGAAGATAC AAATAAATCC GAGAGAACTG AGAGTCTGGA AGGAGATGAC GAGTCCAAGT TAGATGATGC ACATTCATTA GGCTCTGGTG CTGGAGAAGG ATACGAGCCA ATCAGTGATG ACGAACTAGA TGAAATTCTG GCAGGTGATG CAGAAAAAGAG GGAGGACCAA CAGGATGAGG AGAAGATGCC AGATCCCTTA GATGTGATAG ATGTGGATTG GTCTGGTCTT ATGCCAAAAGC ATCCAAAAGA ACAACGAGGC TCGAG (2) INFORMATION FOR SEQ ID NO:1013:	60 120 180 240 300 355
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (b) Torobodi. Iimeal
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCC	TTCATGGCCT	ACAGCCTAAA	TGTTTTATTT	CCTGAGAGGC	TGGAATCTGT	60
ATTTGTGGTA	TCAATCAGTC	AACTGAAATT	TATTAAATGC	CTGCTGTGAG	CAAGGCCTAA	120
TGCTGAGGGA	TGTAAAGAAG	AGTGAGAAGC	TAGTCTGGTT	GGGGTNATAT	GACATGGCAA	180
GTCATAGAAT	GAAGAAGCGT	ATTCCTTGTC	ATATGAAAGC	TGCAGATTAG	TGTGGTTCTA	240
					CCAGAGGCTA	300
AGAATTTAAT	TTGGATCTTG	AAGATCTGGT	CCAATTCCAA	CANGACTCGA	G	351

- (2) INFORMATION FOR SEQ ID NO:1014:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 393 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

AAAACTGTAT GTTTAACTAT GCTTAAGTTA ATATTTATAG TAATGATAGA AGCCATTTTA 18 TTGGCAATAT ATCACTTCCT GATTTCCACA CCAGGCATTC CCACATGCAC AAACAGGTGT 24 GTGGGAGGAA GGGAAATGGG CAAAAATGAT TTCCTTCAAG AGGCTACTGA GAATGAAAAC 30 TCAAAAATCG CACAAATAGG GGTGGTGGAA GGAAGAAAG AAAACTCCAT GCCAGAAATA 36	GAATTCGGCC	TTCATGGCCT	AGGCCTTGTA	TTTTTTTTTA	TTTTCTGCTA	AATTAGAAAG	60
TTGGCAATAT ATCACTTCCT GATTTCCACA CCAGGCATTC CCACATGCAC AAACAGGTGT GTGGGAGGAA GGGAAATGGG CAAAAATGAT TTCCTTCAAG AGGCTACTGA GAATGAAAAC TCAAAAATCG CACAAATAGG GGTGGTGGAA GGAGAGAAAG AAAACTCCAT GCCAGAAATA 36	AAATTTGCTG	TTTCAAATAT	ACTCAAGCTG	TTCAGTTCTT	CAACAAAAAG	TAGGTGACTG	120
GTGGGAGGAA GGGAAATGGG CAAAAATGAT TTCCTTCAAG AGGCTACTGA GAATGAAAAC 30 TCAAAATCG CACAAATAGG GGTGGTGGAA GGAAGAAAG AAAACTCCAT GCCAGAAATA 36	AAAACTGTAT	GTTTAACTAT	GCTTAAGTTA	ATATTTATAG	TAATGATAGA	AGCCATTTTA	180
TCAAAATCTG CACAAATAGG GGTGGTGGAA GGAGAGAAAG AAAACTCCAT GCCAGAAATA 36							240
A CAMPAGEMENT OF THE CAMPAGE OF THE							300
ACATGCTTAG CAGAGAGAGA GAGAGATCTC GAG 39	TCAAAATCTG	CACAAATAGG	GGTGGTGGAA	GGAGAGAAAG	AAAACTCCAT	GCCAGAAATA	360
	ACATGCTTAG	CAGAGAGAGA	GAGAGATCTC	GAG			393

- (2) INFORMATION FOR SEQ ID NO:1015:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

GAATTCGGCC	TTCATGGCCT	AACTCAGTTG	GCTTCTAATT	TGCGTAACAA	GATTAAGGTA	60
GTATTTTTGT	ACTATTATTG	GAAGCATGCC	TTCCCTTTTT	CACATTATTA	AATTGTATTT	120
ATATTTGTGC	AATTTTAAAC	TATGTTTTCA	AATAAACTTT	GTCTGCGGCT	TCGAGGTCTT	180
TTCAGGAATC	TTTCAAAATG	GGATTTGGGG	ATCAGAACTC	CTTCTGATCA	AATGGAATCC	240
AATTTGTACT	ACTGGTCTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:1016:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 304 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

CAGAATGGGA (CTCCAAGCCT	GNCTCCTAGG	GCTCTTTGCC	CTCATCCTCT	CTGGCAAATG	60
CAGTTACAGC (CCGGAGCCCG	ACCAGCGGAG	GACGCTGCCC	CCAGGCTGGG	TGTCCCTGGG	120
CCGTGCGGAC (CCTGAGGAAG	AGCTGAGTCT	CACCTTTGCC	CTGAGACAGC	AGAATGTGGA	180
AAGACTCTCG (GAGCTGGTGC	AGGCTGTGTC	GGATCCCAGC	TCTCCTCAAT	ACGGAAAATA	240
CCTGACCCTA (GAGAATGTGG	CTGATCTGGT	GAGGCCATCC	CCACTGACCC	TCCACACGCT	300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:1017:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

GAATTCGGCC	AAAGAGGCCT	AGTTTAAAGA	ААААААААА	GACCCATCAA	GGGCATAGAA	60
AAGCTTAGGT	GAAGAAACCC	TAAAATGAAT	CCTCATTTAT	CAACTCATTC	ATTTATTGAT	120
TCATTTGTTC	ATTCATTTGT	TCACTCAAGA	AGTATTTGTT	GCCAGACACA	GTACCAACAA	180
AGAAAATAAG	CATCCACTAC	GGCTTTGCAG	AGCTTGGTAC	GCAATGCCTG	GTTCAGAGGA	240
GATATTTGTT	CATCGCTTGC	TTTTAACTGT	ATCACAGCCT	AGGGTGGCAT	GCAGAGGTTT	300
GAATAAGTGC	TGAAACAGGA	CAAGTGAGGT	GCTTATGGAA	ACACACAGGC	TCGAG	355

- (2) INFORMATION FOR SEQ ID NO:1018:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 502 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

GAATTCGGCC	AAAGAGGCCT	AGAAGGAAAT	TGTCCCGAAT	CCCTGCAGTC	TTTCTGTAGG	60
TTGCGGCACA	ACGCCAGGCA	AAAGAAGAGG	AAGGAATTTA	ATCCTAATCG	GTGGAGGTCG	120
ATTTGAGGGT	CTGCTGTAGC	AGGTGGCTCC	GCTTGAAGCG	AGGGAGGAAG	TTTCCTCCGA	180
TCAGTAGAGA	TTGGAAAGAT	TGTTGGGAGT	GGCACACCAC	TAGGGAAAAG	AAGAAGGGGC	240
GAACTGCTTG	TCTTGAGGAG	GTCAACCCCC	AGAATCAGCT	CTTGTGGCCT	TGAAGTGGCT	300
GAAGACGATC	ACCCTCCACA	GGCTTGAGCC	CAGTCCCACA	GCCTTCCTCC	CCCAGCCTGA	360
GTGACTACTC	TATTCCTTGG	TCCCTGCTAT	TGTCGGGGAC	GATTGCATGG	GCTACGCCAG	420
GAAAGTAGGC	TGGGTGACCG	CAGGCCTGGT	GATTGGGGCT	GGCGCCTGCT	ATTGCATTTA	480
TAGACTGACT	AGGGGGCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:1019:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 465 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

GAATTCGGCC	AAAGAGGCCT	AATCAAATAG	TAAAGGCTGT	TCTGGCTTTT	TATCTTCTTA	60
GCTCATCTTA	AATAAGTAGT	ACACTTGGAT	GCAGTGCGTC	TGAAGTGCTA	ATCAGTTGTA	120
ACAATAGCAC	AAATCGAACT	TAGGATTTGT	TTCTTCTCTT	CTGTGTTTCG	ATTTTTGATC	180
AATTCTTTAA						240
GGATCACTGA						300
GAGAAAATTA						360
TTTGGAATGA					ACTCTTCGAT	420
GTACTTGTTT	GGTTTGGTAT	TAATTTGACT	GTGCACGATC	TCGAG		465

- (2) INFORMATION FOR SEQ ID NO:1020:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 243 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

•	GAATTCGGCC	TTCATGGCCT	AGGATTTCGT	ATGCAAGCTC	TTGTTTCTCA	GGCTGCCTGC	60
	AGAAGAAGTC	GCTATAAATT	ATCTGTTGTC	TACATGGTAC	AAGGCCCATT	GACTCATCTG	120
4	ATGCTTGTTT	TGTTAATTTC	TTTAATATTT	TTATCACGGG	GCAGTGGGAG	GGCTTGGGCT	180
•	TTTAGCCACA	GCTGTTTTAA	GACTTCTGAT	CTCCTGCCCT	GCAGGAATAG	GTGGCAACTC	240
(GAG						243

- (2) INFORMATION FOR SEQ ID NO:1021:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 442 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

CTCCACCGAG AGCCTGGACA	GTATGAAGGC	TCTGACAGCC	GCCATCGAAG	CTGCAAACGC	60
CCAGATCCAT GGCCCTGCCA	GTCAACACAT	GGGCAATAAC	ACTGCCACCG	TCACCACCAC	120
GACTACCATA GCCACCGTCA	CCACGGAGGA	CAGGAAGAAG	GACCACTTTA	AGAAAAATCG	180
ATGCCTGTCT ATCGGGATAC	AGGTGGATGA	TGCTGAAGAA	CCTGACAAAA	CAGGGGAGAA	240
TAAAGCACCC AGTAAGTTCC	AGTCCGTGGG	AGTGCAAGTA	GAAGAAGAGA	AGTGCTTCCG	300
CAGGTTCACT CGATCCAACA	GTGTGACGAC	AGCAGTACAG	GCCGACCTGG	ACTTCCATGA	360
TAATCTGGAA AATTCTCTGG	AATCTATAGA	GGACAATTCG	TGTCCTGGCC	CCATGGCCAG	420
ACAGTTCTCC CGCGATCTCG	AG				442

- (2) INFORMATION FOR SEQ ID NO:1022:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 274 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAATTCGGCC TTCATGGCCT	AGATGATCAG	GTTTTTCTGG	ATGGAAATGA	GGTGTATGTA	60
TGGATCTATG ACCCAGTTCA	CTTTAAAACA	TTTGTCATGG	GATTAATTCT	TGTGATTGCA	120
GTAATAGCGG CCACCCTCTT					180
CTCAGTGTGG GTGCAGGCTG	TTTTGTAGCC	AGTATTCTTC	TCCTTGCTGT	TGCTCGATGC	240
ATTCTATTTC TCATCATTTG					274
					2/4

- (2) INFORMATION FOR SEQ ID NO:1023:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 196 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

GAATTCGGCC TTCATGGCCT	ACTTTTCCAG	AAACCAAGAG	TGGCTCTACT	GTGGCTATAT	60
TATTATTGTT ATTATTATTA	TTTTGGAGAT	GGGGTCTCAC	TTTGTCATCC	AGGCTGGAGA	120
GCAGTGGCAC CATCATAGCT	CACTACAGCC	CCAAACTGCT	GTGCTCAAGG	GATCCTCCTG	180
TCTCAGCCTT CTCGAG					196

- (2) INFORMATION FOR SEQ ID NO:1024:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 395 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

GAATTCGGCC TTCA	ATGGCCT AATCATTTA	T ATAAAGTTTA	AAAACATTTC	AGAACTGAAC	60
	AAATATC TGCATATGC				120
AACAGCACAT TCAC	GGACAGG GTGAAGAAA	AGGCATGCAG	GTTGTGCAGT	AGGAAGCTGG	180
GTAACATTGT TCCT	TTATGGC TTTGTTGTC	G CTTCCAGAAT	TTCATTAAAA	ACTTTTTAAA	240
AAACATGGGC CCAC	CATTATG AATTACGTC	GCTTTTAGAG	TACTAAAAAC	TCCAAGCAAA	300
AACACATGAG CCAC	CCGGGCA CGCCTGGCC	TTATTTTATT	TTTCTACGTT	ATTATTCCTG	360
TTTTCAGAGG AGGG	GAATTGT CAGGGAACT	TCGAG			395

- (2) INFORMATION FOR SEQ ID NO:1025:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 429 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: CDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

GGAGAGCTCT	GGGCCAGCCC	~~~~~~~				
						60
						120
TTTTCCCTTC	TGGATGCAAT	AGAGCTATTT	TTTTCTCTTT	GGAATTGAGT	GACACCACCA	180
AGATACGTTT	TTGGGTTGAA	TATGTGTGTT	TTTCAAAATT	CAGTCTGGCC	TTTTTTGTTG	240
TTGTTGTTGT	TGTTTTCTTT	AGATGGAGTT	TCACTCTTGT	TGCCCAGTCT	GGAGTGCAAT	300
GGCACTATCT	CTACTCACTG	CTACCTCCGC	CTCCCAGGTT	CAAGCAATTC	TCCTGCCTCA	360
						420
AGTCTCGAG						429
	CTCTCTCT TTTTCCCTTC AGATACGTTT TTGTTGTTGT GGCACTATCT GCCTCCCAAG	CTCTCTCTCT TGTTTCCCTTC TGGATGCAAT AGATACGTTT TTGGGTTGAA TTGTTGTTGT TGTTTTCTTT GGCACTATCT CTACTCACTG GCCTCCCAAG TAGCTGGGAT	CTCTCTCTCT CTCTCTCTCT TTTTCCCTTC TGGATGCAAT AGAGCTATTT AGATACGTTT TTGGGTTGAA TATGTGTGTT TTGTTGTTGTT TGTTTTCTTT AGATGGAGTT GGCACTATCT CTACTCACTC GCCTCCCAAG TAGCTGGGAT TATAGGCATG	CTCTCTCTCT CTCTCTCT CTCTCTCT CTCTGTGTT TTTTCCCTT TGGATGCAAT AGAGCTATTT TTTTCTCTTT AGATACGTTT TTGGGTTGAA TATGTGTGT TTTCAAAATT TTGTTGTTGT TGTTTTCTTT AGATGGAGTT TCACTCTTGT GGCACTATCT CTACTCACTG CTACCTCCGC CTCCCAGGTT GCCTCCCAAG TAGCTGGGAT TATAGGCATG TGCCACCATG	CTCTCTCTCT CTCTCTCT CTCTCTCT CTCTGTGTG GTATATATAT TTTTCCCTTC TGGATGCAAT AGAGCTATTT TTTTCTCTTT GGAATTGÄGT AGATACGTTT TTGGGTTGAA TATGTGTGTT TTTCAAAAATT CAGTCTGGC TTGTTGTTGT TGTTTTCTTT AGATGGAGTT TCACTCTTGT TGCCCAGTCT GGCACTATCT CTACTCACTC CTACCTCCGC CTCCCAGGTT CAAGCAATTC GCCTCCCAAG TAGCTGGAT TATAGGCATG TGCCACCATG CCCAGGCAGT	GGAGAGCTCT GGGCCAGCCC TTCTCTCTCT CTCTCTCTCT CAAAATT CAATCTGACC CTCCAAAATT CAATCTGCCC CTCCCAGGCT CAAGCAATTC TCCTGCCTCA CTCCCCAACAT TAGCTCACTC CTCCCAACATC CCCAGGCAGT TTTTGTATTT CAACTCCAACATC CCCAGGCAGT TTTTGTATTT CAACTCCAACATC CCCAGGCAGT TTTTGTATTT CAACTCCAACACACACACACACACACACACACAC

- (2) INFORMATION FOR SEQ ID NO:1026:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 407 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

GAATTCGGCC	TTCATGGCCT	AGAGAACTGG	AGCCAGCTGT	CAACTGCCCC	CGCCCCACCC	60
AGGCCATTTG	GCTTCTGCTA	CCGGCATGCT	GCTCAGGGCT	CTGCCCAAGG	ACAACGACGA	120
GCCCCCTGTG	TCCTCTCCTG	GGTCATCTTC	CATGACCCTG	AGGCAGCGAA	GACAAGCTCG	180
GCAGCTCCCT	GAGCTGCTTC	ACACCAACTA	CCTATGAGTC	TGAGGCCAGC	ATCCAGGCGC	240
TGCCCAGACC	CTGAGAGTCC	CTGGACCATG	ACGTAGCCTG	TGTGTGAAGG	GAGCAAGACA	300
GCCTTGACAG	AAGCACAGAG	AACGCCACTG	GGATTCTTAA	AGACGCGAAG	GGAAAAAGCA	360
CAGAAGATGC	TGGCGCTGCA	TCTCCTCCAG	CACCGAGAGG	CCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1027:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 402 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

GAATTCGGCC	TTCATGGCCT	TATAATTAAA	CCTTATTTTT	GCAGATTAGG	AAACTAAGAC	60
GTACTGAGGC	TGGGTGCCTG	GTTCAAGATC	ATATAGCTAA	CATTATTGGA	CATGCAAATC	120
AAGCCCAGAT	TTGTGACTCT	GAGCTGATGT	TAATTCTGTC	ACAATATTGG	TTCTCAAGAT	180
AAATCTTTCC	AGGTGAGGGG	GAAAGGGAAT	AAATATCTAG	AAGTCCCCTT	AAACAGAAGT	240
						300
						360
AAAAACCCTT	TTTGGAATGC	TGTGGAGAAA	GTAGCACTCG	AG		402
	GTACTGAGGC AAGCCCAGAT AAATCTTTCC AATTAATTCG GTCACTTGGA	GTACTGAGGC TGGGTGCCTG AAGCCCAGAT TTGTGACTCT AAATCTTTCC AGGTGAGGGG AATTAATTCG TTTGCAGAAA GTCACTTGGA AAAAATTTAA	GTACTGAGGC TGGGTGCCTG GTTCAAGATC AAGCCCAGAT TTGTGACTCT GAGCTGATGT AAATCTTTCC AGGTGAGGG GAAAGGGAAT AATTAATTCG TTTGCAGAAA TTGGCAAAAT GTCACTTGGA AAAAATTTAA AATATGTGCA	GTACTGAGGC TGGGTGCCTG GTTCAAGATC ATATAGCTAA AAGCCCAGAT TTGTGACTCT GAGCTGATGT TAATTCTGTC AAATCTTTCC AGGTGAGGGG GAAAGGGAAT AAATATCTAG AATTAATTCG TTTGCAGAAA TTGGCAAAAT TTGGGGTTCC GTCACTTGGA AAAAATTTAA AATATGTGCA TTAGGTTGAC	GTACTGAGGC TGGGTGCCTG GTTCAAGATC ATATAGCTAA CATTATTGGA AAGCCCAGAT TTGTGACTCT GAGCTGATGT TAATTCTGTC ACAATATTGG AAATCTTTCC AGGTGAGGGG GAAAGGGAAT AAATATCTAG AAGTCCCCTT AATTAATTCG TTTGCAGAAA TTGGCAAAAT TTGGGGTTCC CTTCTTAAAA	GAATTCGGCC TTCATGGCCT AAATTAATAT CCTTATTTTT GCAGATTAGG AAACTAAGAC GTACTGAGGC TGGGTGCCTG GTTCAAGATC ATATAGGCTAA CATTATTGGA CATGCAAATC AAGCCCAGAT TTGTGACTCT GAGCTGATGT TAATTCTGTC ACAATATTGG TTCTCAAGAT AAATCTTTCC AGGTGAGGGG GAAAGGGAAT AAATATCTAG AAGTCCCCTT AAACAGAAGT AATTAATTCG TTTGCAGAAA TTGGCAAAAT TTGGGGTTCC CTTCTTAAAA GTTCCTTCT GTCACTTGGA AAAAATTTAA AATATGTGCA TTAGGTTGAC AAAGATCAAA AAAGTTAAAA AAAAACCCTT TTTGGAATGC TGTGGAGAAA GTAGCACTCG AG

- (2) INFORMATION FOR SEQ ID NO:1028:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

GAATTCAATT AGGCCATGAA

PCT/US98/06956

60

120

180

240

300

320

(2) INFORMATION	FOR SEQ ID NO:1029:	
(A (B (C	ENCE CHARACTERISTICS: A) LENGTH: 252 base pairs B) TYPE: nucleic acid C) STRANDEDNESS: double D) TOPOLOGY: linear	
(ii) MOLE	ECULE TYPE: cDNA	
(xi) SEQU	UENCE DESCRIPTION: SEQ ID NO:1029:	
CCTGCATTTT ATTAI ICAACTAGTT TTCA:	TCATCC CATATCTATT GAGAATGCTG TAGTTGAGGG TTGTTAGAAA AAATCC CTCCAGGTGA TTCTGATGCA GGCTAGTTCA GTAAACAATA TAAAGA AAACCTCTGG AGGGCCCATA GTGCCTGCAC TCCAGGTCTC GATCTA GGTTATCTGC CAAGGTGCTA TCCTGAAAGG ACTCTAAATG	60 120 180 240 252
(2) INFORMATION	FOR SEQ ID NO:1030:	
(A (B (C	ENCE CHARACTERISTICS: A) LENGTH: 280 base pairs B) TYPE: nucleic acid C) STRANDEDNESS: double D) TOPOLOGY: linear	
(ii) MOLE	ECULE TYPE: cDNA	
(xi) SEQU	UENCE DESCRIPTION: SEQ ID NO:1030:	
TTGTTTTTAA ATGAT CATATTTTAT GTCAT FATCCTCTTA GGTGG	TGGCCT ACCTTATGGC CTAATTAAAT ATTAGTAATA GGTATTCGAT TTTCTT GTAATAGACT ATTGGGTCAG CTAATACTTT TTTGCATCTT TGTTAA TGATAAATTT TCTGACTTTG ATTTGTATGT TTTTGCCCTT GCCTTG GGGGACTTGC AGGTCTGAGT AGCTTGGGTT TGAATACTAC TACAGA GTCAGATGCA GCATCTCGAG	60 120 180 240 280
(2) INFORMATION	FOR SEQ ID NO:1031:	
(A (B (C	ENCE CHARACTERISTICS: 1) LENGTH: 291 base pairs 2) TYPE: nucleic acid 2) STRANDEDNESS: double 2) TOPOLOGY: linear	
(ii) MOLE	ECULE TYPE: cDNA	
(xi) SEQU	JENCE DESCRIPTION: SEQ ID NO:1031:	
ACCATTATT TTTT	TGGCCT AGAGCAAGTG GTTTTTAAAT ATCTTCGAGC TGAACCTGAG AATGAC AGAACCTCCA CTCAATACAC CAGAAAACAG AGAGTATCTT TGAATC ATTTAACGTA CCAGGACTCT ACATTGCAGT TCAGGCAGTG	60 120 180

GAATTCGGCC TTCATGGCCT AAGGGGCTGA AATTAAGAAT GTGGCTTTTT TATCCTTTCA

AAAATAGATT ATTTGGCTGG ATGTGGTGGC TCACGCCTGT AATCCTAGCA TTTTGGGAGG

CTGAGGCAGG CAGATCACCT GAGGTAAGGA GTTCAAGACA AGCATGTCCT GGTGAAACCC

CATCTCTACT AAAAATACAA AAAATTAGCC AGGTGTGGTG GCAGGTTCCT GTAGTCCCAG

CTACATGGGA GGCTGAGGCA GGAGACTCAC TTGAACCCGG AGTGTCTCGA GGCAGGTCTA

CTGGCCTTGG CG GTCATTGACA GC	GCATCTTG GACATCTCGA CA GGAGATGG AGTCACCCAT GT	AAGTGGGTG ITATCCCAG	AACGTACGTT TGGCTCTCGA	AACGGGGATA G	240 29:
(2) INFORMATION	ON FOR SEQ ID NO:1032:	:		-	
(i) SEC	QUENCE CHARACTERISTICS (A) LENGTH: 277 base r (B) TYPE: nucleic acid (C) STRANDEDNESS: double to the company of the company	pairs d			
(ii) MC	LECULE TYPE: cDNA		•		
(xi) SE	QUENCE DESCRIPTION: SI	EQ ID NO:1	1032:		
GATCAGCCTT ATA GAGACCACTG ATO ATCTGAATGC AGA	ACTITITI ATTACATTAA AA ATTITITC CAGACTGTGT CA CATGTTTA GCTCAAATTT AT AAAGGAAT GTTTATTTTG CT CATCCTAT TCCCCAACAA AC	TTGTGTAT (GTTGGATA (GTTATGTT)	GCCTGTGCCA	CCCAACGGAT	60 120 180 240 277
(2) INFORMATIO	ON FOR SEQ ID NO:1033:				
	UENCE CHARACTERISTICS: (A) LENGTH: 298 base p (B) TYPE: nucleic acid (C) STRANDEDNESS: doub (D) TOPOLOGY: linear	airs 1			
(ii) MO	LECULE TYPE: cDNA				
(xi) SE	QUENCE DESCRIPTION: SE	Q ID NO:1	033:		
GATCATTTGC TAT AGTTGTGTGC CAG GGAAAATGAA AAC	ATGGCCT AGGTTACATG TA: TTGTTGT TTCACATGTT TG: GAATTAA AATCCAGTGT TG: CACTGTG ACTTTGTAAA GC: GAGCAGA CCCATACCAG GC:	CATTTATT T TTCTTTTC T TGCGGGAA A	GTTCATTCA TATTTTTTT TGCTCATTT	GCAAACACTT TTTGGCTAGT GTACAAATAT	60 120 180 240 298
(2) INFORMATIO	N FOR SEQ ID NO:1034:				
(JENCE CHARACTERISTICS: (A) LENGTH: 339 base p (B) TYPE: nucleic acid (C) STRANDEDNESS: doub (D) TOPOLOGY: linear	airs			
(ii) MOI	LECULE TYPE: cDNA				
(xi) SE(QUENCE DESCRIPTION: SE	Q ID NO:1	034:		
GACTGGAAGA CCT CTGGAAGAAC TAG AGACACTGAC TGA CCTGGATTTC TTT TAGATTTACT GGA	CACTGAC TGACTGGAAG ACG GGATTTC TTTCTGGAAG ACG ATTTACT GGAAGACTTG GAT CTGGAAG ACCTGGATTT CTT CTGGAAG ACACTGATTG ACG AGACTTG GTAGGCCATG AAG	ACTGATTG A ITTGGTGG A ITCTGGAA G IGGAAGAT C	CTGGAAGAT AGACGTAGA ACACTGATT	CTAGATTTTT TTTTCTGGA GACTGGAAGA	60 120 180 240 300 339
(2) INFORMATION	N FOR SEQ ID NO:1035:				

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:	
GAATTCGGCC AAAGAGGCCT AGCACTGTAA AGATGAAGCT GGCTAACTGG TACTGGCTGA GCTCAGCTGT TCTTGCCACT TACGGTTTTT TGGTTGTGGC AAACAATGAA ACAGAGGAAA TTAAAGATGA AAGACAAAG GATGTCTGCC CAGTGAGACT AGAAAGCAGA GGGAAATGCG AAGAGGCAGG GGAGTGCCCC TACCAGGTAA GCCTGCCCCC CTTGACTATT CAGCTCCCGA AGCAATTCAG CAGAGATCTC GAG	60 120 180 240 263
(2) INFORMATION FOR SEQ ID NO:1036:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:	
GAATTCGGCC AAAGAGGCCT AAAGCACCCG CTTCCTCACC ACCCCACTG TTGGGCCTAT AGTAGCAGGT TAGTGAGTAC CTAGGGCGGC TCAACTCCTC CCACAGCACC AACCCAGCAT GGTCCCACTG AAGTCCTACT ACGCCCTCCC CTCCCCAGGC TTTTCCAGAA ACCATACTGG GCTCAGATCA GAGCTCGAAA GCGTCAAAAG TGAGCTGAGC	60 120 180 240 262
(2) INFORMATION FOR SEQ ID NO:1037:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:	
GAATTCGGCC AAAGAGGCCT ACGGAGCTGT CAGCCAGGGG AGTGGGGTCA GCCGTCAGCC AGCCCTCCCG TTTCCCGCCC GTGGGCCCTG ACCACACTCC CTTTTCTAGA AGTCAATCCT AAGGTTTCTC TGCTCTGGCT AAGAGGATGT AAATTTGGAT TCTTAGAGGG CATGGCACCC CCAGTCCCT CCCAGATAAA GTAGCACAGT GGCATGCAGC ACCTCTGTCT GTTGCTGACG TTGGGGGGCT TACACACCCA CCTCATCTCC GTGCACAGAC TCGAG	60 120 180 240 285
(2) INFORMATION FOR SEQ ID NO:1038:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 291 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: CDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GAATTCGGCC	TTCATGGCCT	AGCTCTGCAA	GGAAGAGAGC	TTCACGTCTC	TGGTCAGCCA	60
AGCGAGGCTG	TCTCTCCAGC	TCTCAGAGAG	CTCTCGGGGC	TCTCCTGCAG	GAGACCAGGC	120
CAATGCTCCT	GTGCTTCCTG	GGGCCAGTAG	CAGCACCCTG	AGCTCCCTGC	CACCAGGCAG	180
CTGAAAGGCA	TAGCGTGAGG	TGCTTCTCTC	AGTCCCAATT	ATGACAGTGG	CCACCGGAGA	240
CCCAGCAGAC	GAGGCTGCTG	CCCTCCCTGG	GCACCCACAG	GACGCCTCGA	G	291

- (2) INFORMATION FOR SEQ ID NO:1039:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 393 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC	TTCATGGCCT	AACTCTACAG	CAGTGCTTAT	TTTTACATTT	CCAAGCGAAT	60
ACCAAAACCT	TCAGCAAAGA	TTGGGTTGGT	ATTAACGGGT	TTTTGTCTCA	GAACTGTATT	120
		CAAATCCATC				180
		AGTTGAGTGC				240
		CTTCATAAGG				300
		ACCCCTCATC		CGTCAGACTC	TTCATGGAAA	360
CCCTTTCTTC	AATTGGGCCA	GTACGATCTC	GAG			393

- (2) INFORMATION FOR SEQ ID NO:1040:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 603 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAATTCGGCC	AAAGAGGCCT	ACCCTACTGT	GACACACCTA	CCATGCGGAC	ACTCTTCAAC	60
CTCCTCTGGC	TTGCCCTGGC	CTGCAGCCCT	GTTCACACTA	CCCTGTCAAA	GTCAGATGCC	120
AAAAAAGCCG	CCTCAAAGAC	GCTGCTGGAG	AAGAGTCAGT	TTTCAGATAA	GCCGGTGCAA	180
GACCGGGGTT	TGGTGGTGAC	GGACCTCAAA	GCTGAGAGTG	TGGTTCTTGA	GCATCGCAGC	240
TACTGCTCGG	CAAAGGCCCG	GGACAGACAC	TTTGCTGGGG	ATGTACTGGG	CTATGTCACT	300
CCATGGAACA	GCCATGGCTA	CGATGTCACC	AAGGTCTTTG	GGAGCAAGTT	CACACAGATC	360
TCACCCGTCT	GGCTGCAGCT	GAAGAGACGT	GGCCGTGAGA	TGTTTGAGGT	CACGGGCCTC	420
CACGACGTGG	ACCAAGGGTG	GATGCGAGCT	GTCAGGAAGC	ATGCCAAGGG	CCTGCACATA	480
GTGCCTCGGC	TCCTGTTTGA	GGACTGGACT	TACGATGATT	TCCGGAACGT	CTTAGACAGT	540
GAGGATGAGA	TAGAGGAGCT	GAGCAAGACC	GTGGTCCAGG	TGGCAAAGAA	CCAGCATCTC	600
GAG						603

- (2) INFORMATION FOR SEQ ID NO:1041:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

GAATTCGGCC	TTCATGGCCT	ATAGAAACAT	CAGTGGGCAC	ATTTACAACC	AGAATGTATC	60
CCAGAAGGAC	TGCAACTGCC	TGCACGTGGT	GGAGCCCATG	CCAGTGCCTG	GCCATGACGT	120
GGAGGCCTAC	TGCCTGCTGT	GCGAGTGCAG	GTACGAGGAG	CGCAGCACCA	CCACCATCAA	180
GGTCATCATT	${\tt GTCATCTACC}$	TGTCCGTGGT	GGGTGCCCTG	TTGCTCTACA	TGGCCTTCCT	240
GATGCTGGTG	GACCCTCTGA	TCCGAAAGCC	GGATGCACAC	ACTGAGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:1042:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 331 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAAGAAAAGC	AGAAAGAACT	GGCAGAAACA	GAACCCAAAT	TCAACAGTGT	GAAAGAGAAA	60
GAAGAACGAG	GAATTGCTAG	ATTGGCTCAA	GCTACCCAGG	AAAGAACGGA	TCTTTATGCA	120
AAGCAGGGTC	GAGGAAGCCA	GTTTACATCA	AAAGAAGAAA	GGGATAAGTG	GATTAAAAAG	180
GAACTCAAGT	CTTTAGATCA	GGCTATTAAT	GACAAGAAAA	GACAGATTGC	TGCTATACAT	240
AAGGATTTGG	AAGACACTGA	AGCAAATAAA	GAGAAAAATC	TGGAGCAGTA	TAATAAACTG	300
GACCAGGATC	TTAATGAAGT	CAAAGCTCGA	Ğ			331

- (2) INFORMATION FOR SEQ ID NO:1043:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GATGGCCACT	TCCCAGGCTG	ACATAGAGAC	CGACCCAGGT	ATCTCTGAAC	CTGACGGTGC	60
AACTGCACAG	ACATCAGCAG	ATGGTTCCCA	GGCTCAGAAT	CTGGAGTCCC	GGACAATAAT	120
TCGGGGCAAG	AGGACCCGCA	AGATTAATAA	CTTGAATGTT	GAAGAGAACA	GCAGTGGGGA	180
TCAGAGGCGG	GCCCCACTGG	CTGCAGGGAC	CTGGAGGTCT	GCACCAGTTC	CAGTGACCAC	240
TCAGAACCCA	CCTGACGCAC	CCCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:1044:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 391 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GTCATTGCAT	CCAAGATAAT	GAAATATCTA	TAACCCCAAA	AGTTTCCTGT	GTECCCTTGT	60
TATTCATTGC	CCTGCCCAGT	ATTCAGGCAA	CACGGATCTG	TTTTCTGTTT	TAGGTTAGTT	120
TGCATTTTCT	ATAAAGTCTT	ATGAATGAAA	TAATAAAATG	TGGACTATTT	TCATGGGCCG	180
GGGAGCAGTG	TGGCTTCTTT	CATTTCAAAT	GATTGTTTTG	AAATTCATCC	ACAGCGTTGC	240
ACGTATCAGT	AGTAGATTCC	ATTTGATTGT	TGATTTGTAT	TCTATTGTAT	GCCTGAGTCA	300
AAATTTATTC	ATCTCTTTGT	CTGTTGATAG	CCATTTGGGT	TCTTCCAGTT	TGGGGCCATT	360
ACAAATAGAG	GTACTATGAA	CTTTTCTCGA	G		,	391

- (2) INFORMATION FOR SEQ ID NO:1045:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

GAATTCGGCC	TTCATGGCCT	AATGTGAGCC	ACCGCACCCA	GCCGAATATT	TGTACTTTGT	60
ATAAATTCAT	TGTCTGTTTT	ACAGTTTGAA	TGGCTCTTTT	ACCCTGGCAT	AATTTTGTAA	120
CGTGTGGAGC	ATTTGGAAAA	TTTTTATTGG	ATTATGCAGA	TATTTTCAAT	GCTGGTATTT	180
CATTATATGA	TAGTAAAAA	TCACTTTTTG	TTTTGTTTTG	TTTTGTTTAT	TTTTCTTTTT	240
TTTTTGAGGC	AGAGTTTCGT	GCTTGTCGCC	CAGCCGAAGG	CGCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:1046:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTCGGCC	TTCATGGCCT	AGTAACTTCA	TAACATTGCT	GGTGTTGAGG	TGAATCTTAG	60
TGGTCATCCA	GTCCCAAGGC	ATCCTTGCCA	GCCCCCTACA	ATACCTGGAT	GGGCGCTTAT	120
CTTCAGGTAG	GCCTGAGCCT	TTCTGGTAAA	GAGGAGCTCA	CTATTTCTAA	AGGAAACCTG	180
TGCCATTGGG	TTAAAAAAGT	ATTAATTTT	AAACATTGGT	AGTTGTTAAG	CAGTTGTTGA	240
ATATTTTGAG	${\tt CCAAAATTTG}$	TTACCTCCCA	TACCTCGAG	•		279

- (2) INFORMATION FOR SEQ ID NO:1047:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

C N N TOTAL COLC C	ттеатесеет	AGCAGCATTC	AAGGAATTAA	TATTAGTCAC	TGAGAACAAA	60
TTTATATATATATATATATATATATATATATATATATATA	λαλλλητττα	AAGTCACTTC	TAGGCTTGTA	GGGGAGAAGA	CGTGTAGTGA	120
AAGCGAAAII	CATTTATGAA	GTACCCACTG	GATCCCACAC	ACTGTGCAAG	ACCTTTAGAT	180
TGAATICIAI	CCTCGGTTTT	CTTCACCCTG	TGCAGCAGGT	GCTGTTATTT	CCTTTTTTAA	240
CAGGCGCCTC	ATTATTATTA	TTTTTTGAGA	CAGGATCTCC	CTTTGTCACT	CAGGCTGGAA	300
ATTATTATT	TCATCACTGC	TCACTGCAGC	TTCGACCACC	CGATCTCGAG		350
TGCAGAGGCA	IGNICACIOC					

- (2) INFORMATION FOR SEQ ID NO:1048:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 298 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:

GAATTCGGCC TTCATGGC	T ANAGCTTTTC	AGTACTGTTT	ACAAATTTGG	TTTTATTGTG	60
TCAACTTAAA AGCATGAG	יייים מיוא א איייים מיויים אייים	አርጥር እጥአርር እ	AATTGTTTCA	TTTTATTTTA	120
TCAACTTAAA AGCATGAG	IC TAAAICIAII	AGICAIACCA	CHCT TICCIC	TACCCTCAAG	180
TTTTATAGAG ATGGGGTC	TT GCTGTATTGC	CCAGGCTGGT	CTCAAACGAC	1 AGGC 1 CAMO	240
CGATCCTCCC ACCTCAAC	CT CCCAAAGTGC	TGGGATTACA	GGTGTAAGCC	ACCATACACA	240
GTTCTCAAAT TATTTTAT.	AC AATACAAACA	TTTAAAATAT	AAATCATGCA	CTCTCGAG	298

- (2) INFORMATION FOR SEQ ID NO: 1049:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:

AAAAAGTAAC ACATGAGATG TGTGCCAAAA	CTCAGAGAAA TAATAGCTTG CAGTAATCAC	CATCCACAAG	ATTTGGTGGA AGCCAGTGAG TGGCTATTTA CACTGGCAAC	TAAGGAAACT CAAGAGAGTA AATTTTAATT TTAACAGCTA	TACTTGGGCT GAGGTTCCAA GACTTTTGCC ATTACAATTA CCAGTGACTG AGGGATTCCC	60 120 180 240 300 360
TACCATATAT	AACAGCATAT	ATAGACATAC	AGCATATACA	ACACATACAT	AGGGATTCCC	367

- (2) INFORMATION FOR SEQ ID NO:1050:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050:

GAATTCGGCC TTCATGGCC	ፈፈጥጥጥጥ ለግለ ካ	דיים במביים ב	TTTTCTATTT	TTTTGCAATT	60
GAATTCGGCC TICAIGGCC	. WCWWIIII				1.20
ATCARCTAR CACATTGAR	AAACTTGGGA	AATATAGAAA	AAACACACCA	AAAAGTATCA	120

- (2) INFORMATION FOR SEQ ID NO:1051:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

GAATTCGGCC	AAAGAGGCCT	AAGAAGACCT	CAGCCTTCGC	CTGAAAAAGC	TGACTCACGC	60
			ACCTCAAGAA			120
					ATATCTTCTC	180
AGATGAAGAA	GTTCGACAGG	GGCTCAAAAC	GTACTCTAAT	TGGCCCACCT	ATCCTCAGCT	240
			TGACATAATT			300
			CAATCTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:1052:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 444 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

60
120
180
240
300
360
420
444

- (2) INFORMATION FOR SEQ ID NO:1053:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

GAATTCGGCC AAAGAGGCCT AGATATTCAT TTCCATTGGA GCTGGTATTT TTAAGGTCTC

GTGACGTCAG TGACCTCATT CTTCTCCATT AAAACATTTA TTCCTATTTC TCTGACTCTT	CTTTATTTGG	CTTCTAGGAA	ACATATTTTC	CTGCTTTTTC	120 180 240
CATTGAAATA TCCTAAGCCT AACTGTGCTG GTGACTCAAA	AGTTTGGGAT	TCCCTTGATG	GTCTTCATTT	CTTTAATGGG	300 358

- (2) INFORMATION FOR SEQ ID NO:1054:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 386 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:

$CCTTC\DeltaTGGC$	CTACTTCTGG	TATTACATCA	CACTGATCAT	GCTGCTGGTG	GCCGTGCTGG	60
CCTTCATCCT	CCACCTGACG	CAGAGCAGGG	TTCTGTGCTG	TCTTCCATGC	AAAGTGGAAT	120
CCGGAGCICI	CCAGCIGACO	CONTROLOGO	TCCTGAAAGC	CAGCATGAAC	ACATCCTCTA	180
TTGACAATCA	CTGTGCCGTG	CCTTGGGACA	TOURDING TO A	TONCOTOCAC	CCACACCAGT	240
ATCCTGGGAC	ACCGCTTCCG	Crececeree	GAATTCAGAA	IGACCICCAC	CGACAGCAGT	300
ACTCCTATAT	TGATGCCGTC	TGTTACGAGA	AACAGCTCCA	TTGGTTTGCA	AAGTTTTTCC	200
CCTATCTGGT	GCTCTTGCAC	ACGCTCATCT	TTGCAGCCTG	CAGCAACTTT	TGGCTTCACT	360
ACCCCAGTAC	CAGTTCCAGG	CTCGAG				386

- (2) INFORMATION FOR SEQ ID NO:1055:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 104 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:

ርር እ ጥጥር እ እ ጥጥ	CTAGACCTGC	CTGTGCTCCT	CGATGGTGTC	TCTCCCTCCA	GAAAACGCAT	60
COMITONALI	CITIOTICO TO C	ATCTGCTTGG	CCCTCTCCCT	CGAG		104
GCTTATTGAC	CITGGILLIG	WICIGCIIGG	CCCTCTCCCT			

- (2) INFORMATION FOR SEQ ID NO:1056:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 650 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:

	222000000	A CACA ACCCT	AACCCTATTC	GATATAACGG	AAAGTGGAAG	60
GAATTCGGCC	AAAGAGGCCI	ACACAAGGC1	CATATACAT	CTTAATCTTC	TCTTATCTTA	120
CTATACCTGA	CTTCCAGAGA	AIGIGGACCG	GAIAIAAGAI	AGAAGTGTAG	CTAGAGGCTT	180
CTACAGAAAT	CTGGATGGAG	AAGCAGTATT	TATCTCAAAG	AGAAGIGGAC	CTAGAGGCTT	240
ATTTCACTAG	GAATCACACC	GTTTTGCAAG	GTACTCGATT	CAAAAGAGCC	ATTTTCCAAG	300
GGCAATACTG	TAGAAATTTT	GGCTGTTGTG	AAGACAGAGA	TGATGGCTGT	GTCACTGAGT	360
moma modeac	CAATGCGTTG	TGCTACTGTG	ATAAATTCTG	TGACAGAGAA	AATTCTGATT	360

•	
GCTGTCCTGA CTACAAGTCC TTTTGCCGTG AAGAGAAAGA ATGGCCTCCT CACACACAGC	420 480
CTTGGTATCC AGAAGGTTGC TTCAAAGATG GTCAACATTA TGAAGAGGGA TCAGTAATTA AAGAAAACTG CAACTCCTGC ACATGCTCAG GACAGCAATG GAAATGTTCC CAGCATGTAT	540
GCCTTGTTCG TCCAGAATTA ATTGAACAGG TCAATAAAGG AGACTATGGA TGGACAGCAC	600
AGAATTACAG CCAATTTTGG GGAATGACTT TAGAAGATGG ACTCCTCGAG	650
(2) INFORMATION FOR SEQ ID NO:1057:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 378 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear .	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:	
GAATTCGGCC AAAGAGGCCT ACACGTATTG GCCAGGATGG TCTTGATCTC CTGACCTCAT	60 120
GATCCGCCGG CCTTGGCCTC CCAAAGTGCT AGGATTACAG GCGTGAGCCA TCGCGCCCAG CTGAGAATAG TTTTAAGAAT TGGTTGAGAG GCAGTTGCTT TTTCTTTGAA TATCTAGAAC	180
TGTTCTGGAC TAACGTCAAA GAAACACCAT GGCAACATTA AAGGGAAGAT TATTTGAGAG	240
GCGGGGGATA GTATGGCTTA GGACTTGGGC TGCTACCTTT GACTTTGTAA TTCAAAAGAT	300
	360
ACCTATAGGC AACTCGAG	378
(2) INFORMATION FOR SEQ ID NO:1058:	
(2) INFORMATION FOR SEQ ID NO. 1938.	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 259 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:	
GAATTCGGCC TTCATGGCCT AATTTTAACA TTTACATAGA CAATTCATTT GGTGTTTTGT	. 60
CTCCTAGTTA TTTGGCCCAA TCTCTGATGA TTTCCACTCT GTCTTGGCCA CTCACTCCGT	120
TTGTCATATC TTGGCCCATA TCATCACCTC AAATTGCTCC ATCTTCAAAA TACTTGCATC	180
TTATTTATTG ACCATATTCC TTCCACTTGG TTTATTGAAC TATTCCCTCT ATCATTCTCT	240
GATTTCACTG CAGCCAATG	259
(2) INFORMATION FOR SEQ ID NO:1059:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 246 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
•	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

GAAAAAAACT	ACTAACCACT	GCAAGCTCTT	GTCAAATTTT	AGTTTAATTG	GCATTGCTTG	60
TTTTTTGAAA	CTGAAATTAC	ATGAGTTTCA	TTTTTTTTTT	GAATTTATAG	GGTTTAGATT	120
TCTGAAAGCA	GCATGAATAT	ATCACCTAAC	ATCCTGACAA	TAAATTCCAT	CCGTTGTTTT	180

TTTTGTTTGT TTGTTTTTC TTTTCCTTTA AGTAAGCTCT TTATTCATCT TATGGTGCAG CTCGAG

2) INFORMATION FOR SEQ ID NO:1060:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:	
SAATTCGGCC TTCATGGCCT ACGAGAGTAT ATTGGTAGGG CTGGAATTTC TGGTTCATAT GGTAACTAAC TCTATGTTGA ACATTTTGAG GAGCCCTCTC GAG	60 103
(2) INFORMATION FOR SEQ ID NO:1061:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:	
SAATTCGGCC TTCATGGCCT AAAAGGTTAG GCAATCACTG GGACCCGCAT GGTGTTCCTC CAAAGAATAG GGTAAAGGAG AGCTGGGAG GAGCCCTCTC CGTTGGGTGA CTCTTTGTGTG CCCTTTAGAC AGGCTGGCCT GCCGGTTCCA CAGGGTACAG TTAGGACTTG AGTCTTTCTT CTTCTGTTTT GAGTTGGTGA GTGAGTGATA GGGTAACATG GGCCTTCAGG ATGACCCCTT GGAACTGTGC CGAGTTCCTT AAATCTCAGC TGGGATCCTG GACCTGGGAG GCCCCTGTGA GGGCCAGCTC TGGAAAAACC TGGGAGTTGA TGCCGGAGGC TGTGGAAGAA CTCTGCTCGA	60 120 180 240 300 360 361
(2) INFORMATION FOR SEQ ID NO:1062:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:	
BAATTCGGCC TTCATGGCCT AAGAAAAATT GGGAACAAGC TAAGTGCCCA CATAGTTACA AAAATTACGT TAAATAGATA CACGGTTGCT TTTAAGCTCC ACATACAGCA CCATAGAGCT ITTTATATAT TTGTAGGCAT TAAAGCAATT CCAGGAAGGA TCTAAACCAA ACACTTGACC CAGGTTGTCT CTCTGGGGAG TGGAGCCACA TGGGATTTCA CTGTTTCTGT ATTCTTATTA CTTATATTAA AACACACATG AACAGAAGAA AAAATAGCCC CAGTATCTCG AG	60 120 180 240 292
(2) INFORMATION FOR SEQ ID NO:1063:	
(i) SEQUENCE CHARACTERISTICS:	
445	

(A) LENGTH: 331 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:	
GAATTCGGCC TTCATGGCCT ACCGTTGTTA CACTTCTGGA CACAAGTTGG GCCGAAGTAA GCCAAGCCCA GTCCTTCCTG TTTCCTTTCT CAGGAAATGT GACCACGTGC ACTGGGAAGC TTTGTGTAAA GTAGATAGGG GTATGAGCCA ATTGCCCAGC ATTGGTGTT TGTTTTTTGT TTGTTTGTTT GTTTTCACAG AGTCTTGCCC TGTCACCCAG GCTGGAATGC AATGGCGTGA TCTCAGCTTA CTGCAACCTC TGCCTCCCAG GTTCACACAA TTCACCTGCC TCAGCCGCCT GAGTAGCTGT GATTACGGGC ACCGTCTCGA G	60 120 180 240 300 331
(2) INFORMATION FOR SEQ ID NO:1064:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:	
CGAGTGTTAC ATTCGTTCTT CCGCTCAAAT CCTGATCTGG TCCATTAAAG AGTGTTCGCA GACAAAGTTT CTGAAAGATT AGAGAAGAAT CCCCCAAGAA TCAATTACAA CCAAAATGGA AAGGGACAAC CTCGAG	60 120 136
(2) INFORMATION FOR SEQ ID NO:1065:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 255 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID. NO:1065:	
GAATTCGGCC TTCATGGCCT AGAATAAAGG AAAATTCAGG TCATAGATTG AGTGCTATAT TTGAAGTAAA TACAGACCTT CAAAAAAATA TAATATCAAA AATCACTGCT GAGCTTCCCT GGCCTTCCAT ACTTAGCTCA CCCCGGCACT TGAAATTTCC ACTTACTAAT ACAAACTGCT CCTCAGAAGA AGAGATTACT TTAGAAAATC CTGCAGATGT TCCTGTCTAT GTTCAGTTTA TTCCTCTGGC TCGAG	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:1066:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

GAATTCGGCC TTCATGGCCT	ACAACCTGCT	TTCCACCTTC	TGTAATCTCC	CATCAGTGAT	60
AAATTACCCA TCAGCTTTCC	AGATTCCAGA	ATTTTGCTGA	CATCTCCTGT	TGGCTATGTT	120
CTTATTTCCT TTTCTGTTTA	TTCCTGTGAC	CTTGTGCCCT	TTAATTCTTT	CCCATAATTT	180
GTTGGGACTT CAGAAGGAAG	TGGAGCTAAA	GGCATGTGTC	TGCCTGCCCC	ATCTTGGCTG	240
GAAGTTGGGA AGGCCTTCCT					300
TCAGCAAATG TCTGTGGGTC	TTCTTTTTAC	TAAACAGGCA	GTTGATTTCA	CCAGAAGTAG	360
TGACCACCTA AGTCTCGAG					379

- (2) INFORMATION FOR SEQ ID NO:1067:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

GAATTCGGCC	TTCATGGCCT	AACACAGCTC	ACATCAGAAT	ATAATAGTGG	AACTAGGGTG	60
ACTTCACTCC	CTTTCACCTG	ATGTCTATCT	TGGCCTTTTA	GCACCTTGAC	TATCCCTGAA	120
AAGACTGGGT	CTTTGTTTTC	CCAGGGAAAA	AACGAAGTGA	TGTAGATCTA	AGAAATAGTG	180
CCTCTTTAAT	ATTTAATTCT	TACATGACAA	CTAACACACA	GGGAAAAGGC	TATGTTAAGT	240
TGATTATAGC	TCCTCTTAAA	ATGTCCTATG	CTGTCAGTTG	GTCTTAGAGA	CATGGGAATA	300
ACCAAGCAAT	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:1068:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

GCGATTG	TAA	TCTAGACCTC	ACCTCTGATC	TATCTCTTTT	ACCTCAGCAA	TTTATTTCCC	60
			TGTTCTTATG				120
TAATTTT	GTT	TTCTTCCTCC	CATCTTCTAA	TGTTGAGACC	GTTTCTCTGT	TTTCTTTCAT	180
CTCTACC	CCT	CAGTCTCATA	GGTTTATTTC	TCATTTCCAA	TCCAGCGATT	TCAAAACCTG	240
TACAACA	AAC	CAACTCAGCA	GCCCTTGGCA	ACTTGAGGAG	ATTTCACAAA	CCACTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:1069:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

PCT/US98/06956 WO 98/45437

GAATTCGGCC TTCATGGCCT ACCATTTCA CAACCATTT AATCTGCGCA TCGGTCCCAG ACGTAGGGAT TCCTCGTCTC ATCTTGGAAA CATTGCCAGC AGTGGTTCTG ATTTGGAAGC CTGCGTCTGT CACGTGACC CGTCTGAGCC TGTGCCTGCC TCTCTTTCTT CCGGCAGTGC CCTGTACTCT GTGGGATGA CGGCAGTGGG CCTGGCCATC CTGTGGTATG TTTTCCGTCT GGCCGGGAGA CTCGAG	60 120 180 240 256
(2) INFORMATION FOR SEQ ID NO:1070:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:	
GAATTCGGCC TTCATGGCCT AGCCATCATG TTTATTAGAA GGTTGGATTT TGGTGTGTGC TCTAGACAGA TACAGAATAA ATACCTGCGC CTTGAGAACA GGAAGTCCAC GATTCATACA AAGTGCTCAC TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGGCAG CCCCTCCTCC CTGCTGACCT CAACAAGGGC TGTGCTATTG TTTTTTATTT TATTATTTTA TTTCTCTTTTA TTATTATTAA TATTATTATT ATTTGCTTTT GCTGTGGTCA CTATCATTGG CAAAGTTCCT TTTCCCTCGA G	60 120 180 240 300 321
(2) INFORMATION FOR SEQ ID NO:1071:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:	
GAATTCGGCC TTCATGGCCT AGGGAGGTAT TTGTCATTGT GAAAAGCTGG GAATCTCAAA CATAGTCAAC TTAACTAAAA AGAAGCTAAT ACAGGTTGAG CATTCCTAAT CCAAAAATCC AGAATCCAAA TTGCTCCAAA ATCTGAAACT TTCTGAATGC TGACCTGATA, CTACAAGTAG AAAATTCCAC ATACAAGTAC TTAACACAAA CTTTGTTTCA TGCACAAACT ACTAAAAATA TTGTATAAAA TTAACCTCGA G	60 120 180 240 261
(2) INFORMATION FOR SEQ ID NO:1072:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:	
GAATTCGGCC TTCATGGCCT ACTTGGGCTC ATTTTATTTG GTGAATTTGA TCCTGGCTGT GGTGGCCATG GCCTATGAGG AGCAGAATCA GGCCACCTTG GAAGAAGCAG AACAAAAAGA GGCCGAATTT CAGCAGATGC TCGAACAGCT TAAAAAAGCAA CAGGAAGAAG CTCAGGCAGT TGCGGCAGCA TCAGCTGCTT CAAGAGATTT CAGTGGAATA GGTGGGTTAG GAGAGCTGTT	60 120 180 240

GGAAAGTTCT CGAG	TCAGAAGCAT CAAAGTTGAG TTCCAAAAGT GCTAAAGAAT GGAGGTCCCT	300 304
(2) INFORM	ATION FOR SEQ ID NO:1073:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1073:	
TTATAAGTTG TTTCAGTGGA GGTAAGAAAA ATCTTCATCC CCCTCAGGTT	TTCATGGCCT AAAAAAGCTA ATGTCATAGG TCTTTATATG TGGGCAGGGT TCTPAAGGGC CATCAGGTAG AGTTGGCCTT TTCTGTTGAG GTCCCCTAAA GGTCTTCTCT TTGGGGCCAG TTTCTCTAGA AAACTGGGTC CTGATAGTAG GACAGCTGAG GACCCCAAGA TTTGTATGAT GACTTTTACT TAATCCCTCT TCTCTCATGC CCATCCGGCC CCACCCCCCA AATCCTCCTC TGGCTGCTGA CAGTTTTTCC TGTCAGTGGA GGTTGAGGGT GGGGCGTAGG CTGGCTGTGG AGAGGACCTG GGTTCCAGTA GCTCGAG	60 120 180 240 300 360 397
(2) INFORM	ATION FOR SEQ ID NO:1074:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi	SEQUENCE DESCRIPTION: SEQ ID NO:1074:	
AGAAGCATGA CTTCAATCTA CCTGGCCCAG	TCTAGACCTG CACCACTGCG ATCCCTACGC CTGAGGAAAT GACAAGATTG ACAGACAACT CCAGATAAAT GTTGACTGTA CACTGAAAGA AGTTGACCTC GAGGAAACTT TGATCCAAAA GCCATGAATA ATTTTTATGA CAACATAGAA TTGTACCACC CAAGCCATCT AAAAAAGACT CCTCAGACCC CTGCACAATT CCCGAAGAAT TAGCGTGACC TCCAAAGTAC AGGCAGACAT CCATGACACC	60 120 180 240 300 309
(2) INFORM	MATION FOR SEQ ID NO:1075:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075:	
ATAAATCTT TTGACTATTO	TTCATGGCCT AGAAAACTAA ACATTTGCCT TTTATAAAGA CTGACAAAAT TATCTAACCC TATCCCCAAA ACTAGCCAGG CCACACCCCA GATGTTCTTA GGAAGATAGA AAAGGCGTTG TGTTTTTTGT TTTTTTGTTG TTGTTGTCAT TCAGAAGACC AGTGTCTCAG TTCTGTCTTA GTAGTACCAC ACCACGACTC	60 120 180 240 243

- (2) INFORMATION FOR SEQ ID NO:1076:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 598 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

CTCGAGCTGG	GGGCCACTTT	GGCACCTAAC	AAAACCAGAG	AAAACAAGTG	CAACTAAGCA	60
AGCAACTATG	CACATTCCAG	ACATAAAGAT	CATTAATAAA	CGCCTTAATC	TAAGGATCTG	120
TTGGTTCTAA	CGCCAGAAAA	AGAAGTTAAA	TTTTAAAAAA	TATCTAAAAG	AGATTTTAAG	180
		TACCCAACAC				240
		ATACATCTAT				300
		ATAAGGTAAA				360
		AGTTTTATAT				420
		ACTGCTACAA				480
		ATTAGGTATC				540
		ACAAAATAAT				598

- (2) INFORMATION FOR SEQ ID NO:1077:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 346 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

GAATTCGGCC AAAGAGGCCT	AGGTGGGTAT	TTGAATGGTT	TTGCTCCAAA	ATTGAACTCA	60
CATTGTTGAT ATGACATGAA	ACTAGCTGCA	GCAAAAAATC	CAGATACAGT	AGATGAAAAG	120
ACTTGCTTTT CAGGAGGCAG					180
AAGTCTAACA GAAATCCTAC					240
CTTCTGGCAT TGTACCAAAT					300
TCCCCAATGC CGTAGCCTTC					346

- (2) INFORMATION FOR SEQ ID NO:1078:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 419 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

GAATTCGGCC	AAAGAGCCTA	GCTCCTGTTA	CCATTATTAT	TATTCATACT	CATATTCATT	60
	TCAAGTGGGC					120
	GATGACTATT					180
CTTCCCATCA	TTCTCAGCTG	ACGGCCTTGC	TTTCTCCCAT	GATTGGGACT	AGAGAAGCAA	240
TOTO TOTO COCK	ATTTTCCACAA	CCTCCATCAC	ATCTCCCCAC	TCATCTACAT	CTGGATCCAT	300

CTATTTGGCC TTCCCTATTG TTCTTATACA CTCTCCCTGT CTTACTTTAT CTAAGGTCAA 360 CATCTCCACT CCACTTATGC ACTAGATCCT GGCATTACAC CAGCAATCCT CACCTCGAG 419 (2) INFORMATION FOR SEQ ID NO:1079: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079: GAATTCGGCC TTCATGGCCT AGCTTATTCT TTTTTCTTTT TCTTTTTTTT TTTTTTTTC 60 120 GCAGCCCTCA ACTCCAGGCC TCAAATGATC CTTCTGACTC AGCCTGCTGA ATGACTGACA 180 TTACACGTGC ATGCCGCTGT GCCCAGCTAA TTTTTAAATT TTTTGTAGAG ATGAGGTCTT 240 261 GCTTTGTTGC CCAGACTCGA G (2) INFORMATION FOR SEQ ID NO:1080: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080: 60 GAATTCGGCC TTCATGGCCT ACATTAACAG ATTAATCCAT CTGTATAGGG CTTTTGCTGT TGGATAGAAT TTAAATTGTC TACATAAATA TTTGTTTTAG GACCCTTAGA TTTTATCTGA 120 ATACACAGAT TAGGCTTTAA AAACAGATAT ATATGTCATT TTTGGCTTAA GGAGTTTGGC 180 208 TAAGTTAGCT TTTCAACTGG TTCTCGAG (2) INFORMATION FOR SEQ ID NO:1081: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081: 60 GAATTCGGCC TTCATGACTC CTGATTCAGG GGTCAGTTTA CTTCATAAAA AATCATTAGA AAAGGAAGAA TTATGCCAAA GACTTAAAGA ACAGTTAGAT GCTCTTGAAA AAGAAACTGC 120 180 ATCTAAGCTG TCAGAAATGG ATTCTTTTAA CAATCAACTA AAGGAACTGA GAGAAACCTA 240 CAACACACAG CAGTTAGCCC TTGAACAGCT TTATAAGATC AAACGTGACA AGTTGAAGGA 300 AATTGAAAGG AAAAGATTAG AACTAATGCA GAAAAAGAAA CTAGAAGATG AGGCTGCAAG GAAAGCAAAG CAAGGAAAAG AAAACTTATG GAAAGAAAAT CTTAGAANGG AGGAAGAAGA 360

420 425

AAAACAAAAG CGACTCCAGG AAGCCAAGAC ACCAGNAAAA ATTCCAAGAA GAGGAACGTC

TCGAG

- (2) INFORMATION FOR SEQ ID NO:1082:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

GAATTCGGCC	TTCATGGCCT	AAGACTTCTT	GCAGGAAAAA	TGAGTGCATT	GAGGATAGTA	60
ACCTGACTTT	CTGACCTGTG	${\tt ATTAAATTAT}$	GATAGTAGTC	AGTCATTTTA	CTCTCCCAGG	120
GTTTGAGGAA	GTGGCCGGTG	AGGACTTGGA	GCCTAGTGAG	${\tt GAGTTAGTAG}$	AGCTGCCCAG	180
GGTGGAGGAG	GCCACAGAGG	ACAGCCCTGG	TGAAGAGAAC	AGTGAGGCCT	TGGATGTGTT	240
GATATCCAGC	AAGGACCTGG	CACTGTCTAG	TGAGGACGAG	GCCTGCACAG	GATCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:1083:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 444 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

GAATTCGGCC TI	CATGGCCT	AAGTCACTTG	TGTAACGTAG	TTATACTTTG	CTGCATTNTA	60
ATTAACCTTC A	ACAGCTATT	AAAGTGGAAT	GTAAGTTAAA	TTTTGAAGGA	AAGGAAATAA	120
ATGTTTTCCA TA	ATTTCGTCT	TGATTTACTT	TCTGTATGAG	AACAGCTGTG	TTTTTGATAG	180
GTTTATGGTT TO	GCATGAGTT	CATATTTAAA	GTGATCCAGG	CCAATGCATG	GCTATTGCTG	240
TAAATCTTGA TO	STTTATTTC	TGCCTTGTAA	AGTTCTATCA	CGGCCTACCT	GGAATTTAAA	300
ATTCAGTAGA CA	TTAATTAAA	GGTCCTCTGC	ACAACTTTTT	TAATAAGTAG	ATTATTTTAC	360
AAAGAAATTT GA	AACAAATTT	AATTGAATCT	TTTGTTTAGC	TTGCCTCTAA	GAACTTTTCT	420
TAATAAAGCT CO	CCAAACACT	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:1084:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

GAGTGAGACT	CCCTCTCAAA	GGAAAAAAA	AAGTTTTCTA	GGATCAAAAT	AGGAAAACAG	60
TTGTTTCAGA	ACTCATGATA	TGAGTCATGA	CTACAACCCA	CCATATTCAG	TAAAACCTCA	120
CCTTGTCCTG	TTGTCTGACA	TTAAGTGTTC	TACGAGATCC	ATACCTGTGA	AATCAGCTCC	180
TCTGGAATGA	CAGATGCTGG	AATAACTGGC	TGGGGCTGAC	TGCCCAAAAG	CCCAGACCCT	240
CCATCCCCTC	CTCTCCCAAT	AACTCGAG				268

(2) INFORMATION FOR SEQ ID NO:1085:

PCT/US98/06956 WO 98/45437

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:	
GAATTCGGCC TTCATGGCCT ACTTTAAGTG AACAACANCA ACAAAAAGT TAAGGGTAAG ATGAGGCAGC TTTTCAGTGG AAAATACTTG TCTTGGGGAC AGTATGTCAT GTCCCTATAC CTGGTGCCAT TGATAAGGTT ATTCATTCAA CAATATTTAC TGATCACTGG CATATGCCAA GCACTCTGCC AAGTACTAGG GATATAAACA TTAGAAAGAC AAGTTCCTCC CTTTTCAGTC ACGATCTCGA G	60 120 180 240 251
(2) INFORMATION FOR SEQ ID NO:1086:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:	
GAATTCGGCC TTCATGGCCT AGAGCTTCAC GGAGGCAAGA GGGTAATGGA GTGCCTAAAA AAAGCTCTAA AAATAGCAAA TCAGTGCATG GACCCCTCTC TACAAGTGCA GCTTTTTATA GAAATTCTGA ACAGATATAT CTATTTTTAT GAAAAGGAAA ATGATGCGGT AACAATTCAG GTTTTAAACC AGCTTATCCA AAAGATTCGA GAAGACCTCC CGAATCTTGA ATCCAGTGAA GAAACAGAGC AACTCGAG	60 120 180 240 258
(2) INFORMATION FOR SEQ ID NO:1087:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: GDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:	
GAATTCGGCC TTCATGGCCT AATAAAAAGA ATTATCAAAG AATTGCAGGG GAAACCCCAT AGAGAAGACT CATTCTTAGA TGAGTATACA ATCCATGGGG GTCTTTAGGA TATTTAACTG ATTTGGGAGA GGTCGGATAA AGAAAAAGGA GCATTAACCT TGACTATGCC TTTAGCTCCA GCCGCCTCTT TAAGAGGAAA TTGTTGGCCA GGTGGGGGAA GGCTAGTCAT GGAACGAAAC TGTAAGCCAG ATCGGGTGTG AGGAGGGGG GTGATAAAAG GATTATAGGG TGGGAGAGCA CAGGCTGAGG AAGAATTGGG ACCTGGCTCA GCCTGGCAAG GCACAGCCTG GGGAGGAGGG GAGAGGTCCT GTAGAAAAGG AGGATCTCGA G	60 120 180 240 300 360 391

(2) INFORMATION FOR SEQ ID NO:1088:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 368 base pairs
 (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAATTCGGCC	TTCATGGCCT	AGCCTTCNAA	GTTTGAATGG	CCCTTAGGTT	TTAAGTTATC	60
TATGCAAAGA	TGAANAAGGC	CTTCACATTC	TCAAAGGTGA	CAACTCATAC	CCAGCCATTT	120
GCTTATTTTT	GCCTGCAGAC	CTCCAATGGA	AGTCCGGGCA	CATGGCGGAG	AGCCTCACCA	180
			TTGGAGCCCT			240
TGCTGATCAT	CCTGATCGTG	GGGATTTGCC	GCATCAGCCG	CATTGAATAC	CAGGGTTCTT	300
CCAGGCCAGC	CTATGAGGAG	TTCTACAACT	GCCGCAGCAT	CGACAGCGAG	TTCAGCAATG	360
CACTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:1089:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC	TTATGGCCTA	GTTCATTTAA	CTAATACTTG	TATTAAATCA	CTTCTAAATG	60
CTTATTATAC	CCTGTATTAT	AGTATTATAT	TCTGAGTCTT	AAAGGTGCTT	AATGTGAAGA	120
TTCTCTCTCT	ACATATTCAA	CTCTTACTAA	CTTTTGGCTT	TAGGTAGAAA	TCAGTTAGTG	180
			CTAGGGGTAT			240
			TTTTTAATGG			300
			TGCCTCTAAA		GCTGGGAATG	360
GGGTGCAGAA	TGAGGAGAAC	CCTAAGCAAT	AGGCAATAAG	AAGCTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:1090:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 359 base pairs .
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GAATTCGGCC	TTGGCCTAGT	GAGAGAGCGT	CAAAAAAAACT	TCCATCTCAG	CCAACCACTG	60
ATACTAGTAC	TGACAAAGAA	AGAACTTCAG	AGGACATGGC	TGATAAAGAA	AAATCTACAG	120
			CCCCAAAGTC			180
			CAAAAGAGCA			240
			AAAAAAATAA			300
			GAAAGAAAGA			359
AGAAGCCAGA	CAGCAATGAG	AAAGGAGAAA	GAAAGAAAGA	AAAGAAGGAA	AAGCTCGAG	333

- (2) INFORMATION FOR SEQ ID NO:1091:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GAATTCGGCC	TTCATGGCCT	ACATGTTCAT	TCTAAGAAAC	TTAACTCCAT	TTTTAAGCTT	60
TAAGATTCCC	CCGATCCCAA	ATAACCTAAC	ACACCAAAAG	CCTTGCCATT	TCACACATGC	120
TGTTCCTTTG	CTTAGAACCT	TTTCAATGTC	TAGCTCACTC	${\tt TGTTTGGGAC}$	TTCTTTTTTC	180
TTTTCTTTTT	TTTGAGACAG	GGTCTGGCTC	TGTCATCCAG	GCTGGAGTGC	AATGGGGCAA	240
TTTCGGCTCA	CTGCAACCTC	CGCCCTTCCA	GGCTCAAGCG			280

- (2) INFORMATION FOR SEQ ID NO:1092:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

GGAAAATTGA	GAAAACCATG	AAAGAAAAAG	AAGAACTGTT	AAAGTTAATT	GCCGTTCTGG	60
AAAAAGAAAC	AGCACAACTT	CGAGAACAAG	TTGGGAGAAT	GGAAAGAGAA	CTTAACCATG	120
AGAAAGAAAG	ATGTGACCAA	CTGCAAGCAG	AACAAAAGGG	TCTTACTGAA	GTAACACAAA	180
GCTTAAAAAT	GGAAAATGAA	GAGTTTAAGA	AGAGGTTCAG	TGATGCTACA	TCCAAAGCCC	240
ATCAGCTTGA	GGAAGATATT	GTGTCAGTAA	CACATAAAGC	AATTGAAAAA	GAAACCGAAT	300
TAGACAGTTT	AAAGGACAAA	CTCAAGAAGG	CACAACATGA	AAGAGAACAA	CTTGAATGTC	360
AGTTGAAGAC	AGAGAAGGAT	GAAAAGGAAC	TTTATAAGGT	ACATTTGAAG	AATACAGAAA	420
TAGAAAATAC	CAAGCTTCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:1093:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

GAATTCGGCC TI	CATGGCCT	ACCTCCATTG	TATATTAACA	TTTATCATAA	TTATTATTTG	60
CTCATTCAAA AA	AATATTGCT	CTGATATGGT	ATTGAATATT	CCTCACATAG	GAAAATATGA	120
ACAGTTTATT TO	GCCACCCAG	ATGGTTTGGA	AGCCTATACC	CTCCAAGACA	TTGAGAAAAG	180
AAAAATCTTT CT	CTCAGGAG	AGAGAATGAG	TGCCAAGCAA	TGGĞAGAAGC	CCCTTAAAAA	240
ACCATCAGAT CT	TCGAG					256

- (2) INFORMATION FOR SEQ ID NO:1094:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 454 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

GAATTCGGCC TTCATGGCCT	AAGCTGTTAG	TGATTCTGAC	ACCCTTGGAC	CTCCAGGAGT	60
AGCTCCTCCT GCCACGAGAG	GACTCTGGCT	TTTCTAATAA	GGAAGGTTCT	GGCCAATCAG	120
TCCAAGAAAG GCCCGGATTC	TCTTCCAAGG	TGTTGTCTCT	GCAGAAATGT	TCCTCAGGGT	180
GGAAGGTGCT GCTGCAGCAA	GGGATGTCCC	CTGAGTTTTC	AGGTATGTAG	TCTGTGGCTG	240
CAGCAGGTGA ACACTCCTCA	CACTCCCATT	TCTTACTGTT	AGATCTAAGA	GAGGAGCAGT	300
CCCTGTGGGT TCCGTGGGAT	CCGCATGTAG	CACACAGAAT	GAGGCACCAC	CTCCCTTCAT	360
CCTCAAAGCT GTCTCTGCCT	TGTTCATACA	GACAGATGGG	${\tt GGCATCACAG}$	TGCTGATAGC	420
GCTGATATAA GTCTGAGAAA	GCCCCTGGCT	CGAG			454

- (2) INFORMATION FOR SEQ ID NO:1095:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 449 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

GAATTCGGCC TTCA	TGGCCT AGTGATCTCA	TCTCTCCGTC	CATGGGCGAA	AAAACAGCCA	60
TCACCAGGCC ATTC	ACGCTT TGTGCTTTTG	TTAGCAGAGC	CCAGGCAGCC	CTGCAGCCCA	120
CATCTAGGGT ACAA	ACGGAA CGGCGGCGTT	TTCCTTGTAT	CATTTAGAGG	AAATTTTTGA	180
GCTGAACAGT ATTT	TTTTTC TCCCTCTCTC	TCTCTCTGAA	ATATTGCTGA	GATTTAAAGG	240
AGGACGAAGA CAACA	AGATTC ATAGCTGGGT	CTTGCTGTTT	TCCTGACGCT	GACCACAGCG	300
GATCTAGTTT CTCT	GCAGAA GACAGCAAGA	TGCCCCAGGG	AATGTTTGTG	AAAAAGGATG	360
ACTGGATGGG AAGC	AAGCTG AAGAAAAAGA	AGGAAAGAAA	GAGAGAAATC	AGTAAATCAC	420
CACACAAGAG GTGG	AGAAGA GGACTCGAG				449

- (2) INFORMATION FOR SEQ ID NO:1096:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 166 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

GACTGGCCGC	AAGGGACGGG	TTGTGAGCAA	TGATGATGGA	AGCATATCTT	ATGAGTCAAG	60
ATCTGAACTT	GATGTGCCTG	TGGAAATACT	AAACATCACA	GAAAAACAAC	GATTTATGGA	120
TOCACATAAC	AATATTGCTA	TCATCTCAGA	AGCTGCCATG	CTCGAG		166

- (2) INFORMATION FOR SEQ ID NO:1097:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 501 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

GAATTCGGCC	TTCATGGCCT	ACATTATTTA	CACCTGTCCC	AGACTTTGAT	TCAGGAACTA	60
ATGCTGCAAA	GCAAGGACTA	TGATGGAAAA	TGCTCACTGC	AAGAATGGTA	GCTGCAGCAA	120
GATCAAGATC	CCAGAAAGCA	GTGGCCAAGG	CACTCACTGT	AGACTTTAGT	GCCTGCAGCA	180
TCTGGTGCAA	GCTACACTGT	CTACGCCCAG	GAACACAGCA	GCAGCATCCG	GCCTGGGCCA	240
ATTCTGTGTA	AGATTTGATG	CGCTGTCCCT	GGCTGCAGTG	CCTGCAGACA	TCTCTCTCTA	300
GCCCTTCTAA	CAATTTCACA	GCAACTCAAC	ATCTTTAAAA	ATTTATTAGC	CAACCAAAAT	360
CAGCTTCTGT	GGCATGCAAG	TAAAAACCCA	GGCTGATATG	TCTGAATACA	GAAGATTTAT	420
ATTAGTTCCT	TAGAGTCAAT	AATCCATACA	GACTCTATTC	TAGCTTCTTT	GTGAAGTGGG	480
TAAGAATTCC	TCTGCCTCGA	G				501

- (2) INFORMATION FOR SEQ ID NO:1098:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 282 base pairs
 - (3) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

GAATTCGGCC	TTCATGGCCT	ACTTCAAAAA	CATATATTAA	TATTTTTGTA	CCACGTAAGT	60
TCATCAGAAG	CCTGACTTTA	ATCTCTGATT	TATTATATTT	GAACACTGTG	AAGAAGCAGT	120
TTAACACTGA	ACGAAAGTGT	CGTAATGCAG	CTTTCAAAGT	GGCCATTAAA	GACAGATCTC	180
TGCTTTTCTA	TTAGTACATT	TTCTAAGATG	ACTATCATTG	CCATTGTAGT	CAGCTTTGTG	240
TACCTTTATA	GAGATTCCAG	TATAAACCCA	GAAACGCTCG	AG		282

- (2) INFORMATION FOR SEQ ID NO:1099:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

GAATTCGGCC	TTCATGGCCT	AGGAAACTTT	TCAAAGAAGT	AGTCCACGAG	AACTACCTTG	60
AAAGAGCAAA	ACCAGCCAGG	TGCAGTGGCT	CACGCCCATA	ATCCCAGCAC	TCTGGGAGGC	120
CCAGGTGGGT	GGATCTCGTG	AGGTCAGGAG	TTCAAGACCA	GCTTGGCCAA	CATGGTGAAA	180
CCCCATCTCT	GCTGAAAATA	CAAAAGTTAG	CTGAAAATAC	AAAAGTGGCA	CATGCCTGTA	240
ATGCCAGCTA	CCGGGAAAGG	CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:1100:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 310 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

CTCGAGCGTA	TCCCAGAACT	TAAAGTATAA	TAATAATAAT	ATAATAATA	ATAATAATAA	60
TAATAAAACC	TTCCAACAAG	CTTCCTTTCC	ACCACAGGAA	ATCCTGTTGG	GAGTTCCCCC	120
TGAACCAAAA	AAAAAAAAG	ATAGAGTATA	AAACATACAC	TTTTCAGGAA	TGCTTATTGG	180
GTAATGTAAG	ATAACACCTC	AAAATGAAAC	TCAGAATTTT	ATTTTATTTT	ATTTTTTGAG	240
ATGGAGTCTC	ACCTAGGCTG	GAGTTCAGTG	TGGTAATCTT	GGCTCACTGT	AGGCCATGAA	300
GGCCGAATTC						310

- (2) INFORMATION FOR SEQ ID NO:1101:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

GCGATTGAAT	TCTAGACCTG	CCTCGAGTGT	ACCTCATTCT	GCCATCTCTG	ATATTATGTC	60
ATCTGATCAA	GAAACTTACT	CTTGTAAACC	TCATGGACGG	ACTCCACTTA	CCTCAGCTGA	120
TGAGCATGTA	CATTCCAAAC	TGGAAGGAAG	TAAAGTAACG	AAATCTAAGA	CTTCTCCGGT	180
GGTATCTGGT	TCATCTAGTA	AATCAACCAC	CCTTCCAAGG	CCACGACCTA	CCAGGACTTC	240
CCTCTTGCGC	AGAGCACGAC	TTGGTGAAGC	TTCAGACAGT	GAACTTGCTG	ATGCTGACAA	300
AGCATCTGTT	GCTTCTGAAG	TATCCACAAC	AAGTTCTACA	TCAAAACCTC	CCACAGGAAG	360
GCTCGAG						367

- (2) INFORMATION FOR SEQ ID NO:1102:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 368 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

GAATTCGGCC	TTCATGGCCT	AAGAAAGCAA	GAAAGCACGA	AAGCAATCAA	GCAAGAAAGC	60
AAGCAGGAAA	GAAACAAAAG	AAAGAAAGAA	NGCGAGAAAA	CAAGAAAGCA	CGAAAGCAAG	120
CAAGCAAGAA	AGCAAGCAAG	AAAGAAACAA	AAGAAAGAAA	GAAAGAAAGN	AAACAGGAAA	180
GCAAGAAAGC	ACGAAAGCAA	GCNAGCAAGC	AAGAAAGCAA	GCAAGAAAGA	AACAAAAGAA	240
AGAAAGAAAG	AAAGAAAGAA	AAAGAAAACA	GGAAAGCAAG	AAAGCACGAA	AGCAAGCAAG	300
CAAGCAAGAA	AGCAAGCATG	AAAGAAACGA	AAGAAAGAAA	GAAAGCAAGA	AAACGGGAAA	360
GACTCGAG .						368

- (2) INFORMATION FOR SEQ ID NO:1103:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

GAATTCGGCC TTCTGGCCTA GAAACCCGTG ACACACACAC ACACACCTGC ATAGATTTTT CCCAAGCACA CGATATGCAC GTGGATACAC AGACTTACAA GCACAGGGCC ACGTGCAGAC AGACACAGAC CCTGTCTGCA CCACAAACAT ACCACACACA GCCACACACA CAGAAGCCAA ACATCCTCGC ATAGGTGGAT ACAAGCACAG ACTCACATAC ACATATGCGA TACACATATG GATACATACA CAGAGTACCC CCACAAACAC ACAGACACAC ACGGCAGAG ACAGACAG	60 120 180 240 300 328
(2) INFORMATION FOR SEQ ID NO:1104:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:	
GAAAAAACT GAGTTAATGG CCATGACTAG ATGGGAGGTC AGATTCGCCG TTATATCCTC TCTGTTTTGC AGTTTAGACA CAACTGACCA GCATTGTTAA AATGGAGATC ATACGGCTGG TAGAACAGAC TCTTTGTGGC CCAAAATTAG CAAATTATAA ATAGAATCTA AAGCCATCCC AGGCAAGGGT TAAGTTATGC ACCCCTACAC TTAAAGAATA AACTATGTTG GCCGGGCCAA CTCGAG	60 120 180 240 246
(2) INFORMATION FOR SEQ ID NO:1105:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 298 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:	
GAATTCGGCC TTCATGGCCT ACGATCAGAA AGAAAACACA GATCTCGAAG TCGGGATCGA AGAAGATCAA AAAGCCGGGA TCGAAAGTCA TATAAGCACA GGAGCAAAAG TCGGGACAGA GAACAAGATCAA GAAAATCCAA GGAGAAAGAA AAGAGGGGAT CTGATGATAA AAAAAGTAGA GAAAGAAGGC GGAGCAGAAG TAGAGATCGA CGAAGAAGCA GAAGCCATGA TCGATCAGAA AGAAAACACA GATCTCGAAG TCGGGATCGA AGAAGATCAA AAAGCCGGGA AGCTCGAG	60 120 180 240 298
(2) INFORMATION FOR SEQ ID NO:1106:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:	
GAATTCGGCC AAAGAGGCCT AGGGATGGAT GGTTCAGCTG CTAGAATTTC GATGCAGGAC TTCTTCAAAA TTGAGTGGAT GATGCCTTGC AGAGCCTGAA AGCCGTCATT CACGGGAAAC ACACAGTAAA CAATTGCACC AAGATCTCGA G	60 120 180 211

(2) INFORMATION FOR SEQ ID NO:1107:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 269 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:	
GAATTCGGCC AAAGAGGCCT ACCTGCTTGA ATTGGGGCCC CTTGTGAAGC TGCTGCCGCA TCTCTTCCAT TCGCTGCTTC CGGTACTGCT GCAGAAACTC TTCATCATCT TGGTCCTCAT TCATTATGGC AAACTCCTTC AGAGTCATCT TCCCACTGAT CTTCTCCTGG AGGTCTTTCT GTTTCTGTTG CTCCTCCTCT TCATCCAGAT GGGACCTGCA AGTCATTGAC AGCTTCTTGA TCAGCCTTTC CATCTCCGG CAACTCGAG	60 120 180 240 269
(2) INFORMATION FOR SEQ ID NO:1108:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:	
GAATTCGGCC AAAGAGGCCT ATGAAAATTG ACTGCAATTA GTAAAGTTGG TATAACGTAC GTTCCCAGTT GTGCTATTTA GAATTATGAT AGTATTATGC TCCTACTTTT CTTTGATATT GAGTAGTCTC GAG	60 120 133
(2) INFORMATION FOR SEQ ID NO:1109:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:	
GAATTCGGCC AAAGAGGCCT AGCTTTTCT AATCATAAAT TATATGACCT TTACAGAAAA TTTAGAAAAAT ACAGAAAAAC TGAAAAGTTA CACATGGTAC AACTCACAAC CACAATCCTC GAG	60 120 123
(2) INFORMATION FOR SEQ ID NO:1110;	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

${\tt GAATTCGGCC}$	AAAGAGGCCT	AGTGTTCCAG	ATCCTACGGC	TTATGAGGAT	TTTCCGAATT	60
CTAAAGCTTG	CCCGGCACTC	GGTAGGACTT	CGGTCTCTAG	GTGCCACACT	GAGACACAGC	120
TACCATGAAG	TTGGGCTTCT	GCTTCTCTTC	CTCTCTGTGG	GCATTTCCAT	TTTCTCTGTG	180
CTTATCTACT	CCGTGGAGAA	AGATGACCAC	ACATCCAGCC	TCACCAGCAT	CCCCCTCGAG	240

- (2) INFORMATION FOR SEQ ID NO:1111:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 264 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

GAATTCGGCC AAAGAGGCC	r aggtggggag	GGGAGGGGAC	AGGAGAAATG	AAATACCTTC	60
ACCGAGAACT CAGCAGCTG	CACCGCAGCT	GCCTCCTCAG	GATCCGGTCG	TCGGGGATAG	120
GGAAGGGAGG GGAAAGGGG	A ACGGAAAACA	AAAAAAAGGG	GGAGGGAAGG	GGGAGGAAGG	180
AGTCGGGGAC GGCCTCAAA	TCAGCTCAGA	GGAGTCGCTG	CTGCAGCCGC	CACTCGGTAC	240
CCGCTGCTAG GCCTCTTTG	CCGAG				264

- (2) INFORMATION FOR SEQ ID NO:1112:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 519 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

GAATTCGGCC	AAAGAGGCCT	AAATATTAGA	AAATGTATAT	TATAGAACAT	GATATATATT	60
TACATTCATC	TCTGTATTCT	CTCAGCTGTT	GTTAGAAGGA	CAGAATGTTA	AACTTTATCT	120
TAATTAGTAT	ACTAGAAAGG	GCAGTATAAT	ACTGTTTTAA	AGTGAAGGCA	TGACTGAAAC	180
TAAAATATTT	CATAAGGCTT	AGCTAGAGGC	AGAGTAACGT	GTTTTTGTTC	ATTGGGCTTC	240
CTTGTACTTA	GTTTTTTCAT	TTAATAATTC	AAACCAACAC	AAAAAATTTT	ATAATTCAGA	300
TGAGACTGAG	CCATATCTGC	AGTAAGAGAA	ATATTTCTTA	ATGTTTTGGT	TACTTATGAT	360
AGAGTACTTT	TCTTGATACT	GTTAACTTTG	TGCTTTTTAA	AAAAAGTGAT	TCTCTAACAG	420
ACCTCTTAAA	TTGTGACATG	AAGGTATGTA	ATTAGATTTC	AGAAATTGGT	TTATTAGTGA	480
GGAATTTTTA	TCAATAAATG	TCATGGGGCG	GCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:1113:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 562 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

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GGCCCACCTA	GTTGGTATCC	CAAATTCACA	CATTCAAAAG	CAAAGCCATT	TCTCACCTTC	60
CTCCAAAATA	CTTGTAATTC	CTAATATCCT	GACTCCAATC	CATTCTTTAT	TTTCTATTCC	120
CAAGGCCCTT	CACAGAATCG	AAACTTTTGT	TATGAGCTCT	TACATGGTGT	ATCATCAATA	180
TGTTCACTAG	ACAGGAGTTT	TTTTTAAAAA	AAATCCTCAT	CATTCCTCTT	CAATTCAAGA	240
GCTCTGATGG	CTTCCAGTCT	ATACAAGATA	TATTAAGGCT	CAACTTACAG	TTCCAGTCTC	300
ACCTGCCCCA	CCTCCACCTT	CCCAAACCCT	CTGTATTCTA	GCCAGAGCAT	ACCTGCATTC	360
CCTTAGCTCA	ACATGTGTCC	TTGCTCACAC	TGTCCCTTTG	GTTGACCTAG	CTTCAATTCC	420
TTCCTCATGT	GCAGTTATGT	GTCTACTAAG	CAGCAATGTG	AAATGTCTTT	ATTGTAGGTC	480
TGTCAAAAGC	TAAAGTCATG	GCCCGGTGCA	GTGGCTTGGG	CCTGTAATCC	CAGCACTTTG	540
GTAGGCCTCT	TTGGCCGAAT	TC				562

- (2) INFORMATION FOR SEQ ID NO:1114:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 435 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

AAAGAGGCCT	ATTATTGCTA	TCGCCCTCCT	TTCCCTTATT	GCCTCCCAGG	60
GTCAGTCTTT	GCTCAGTGTC	CAGCTTCCAA	AGCCTAGACA	ACCTTTCTGT	120
GAATGGTCTT	TGCTCCAGAT	AACTCTCTTT	CCTTGAGCTG	TTGTGAGCTT	180
GGCTTGAGCT	AGAGATAAAA	CAGAATCTTC	TGGGTAGTCC	CCTGTTGATT	240
CAGGCTTTTG	CTAGATGGAA	TGGAAAAGCA	ACTTCATTTG	ACACAAAGCT	300
GTAAATTGTC	GGGGGAGAGA	GTTAGCATGT	ATGAATGTAA	GGATGAGGGA	360
GAGGAACCTC	TCGCCATGAT	CAGACATACA	GCTGCCTACC	TAATGAGGAC	420
CTCAG					435
	GTCAGTCTTT GAATGGTCTT GGCTTGAGCT CAGGCTTTTG GTAAATTGTC	GTCAGTCTTT GCTCAGTGTC GAATGGTCTT TGCTCCAGAT GGCTTGAGCT AGAGATAAAA CAGGCTTTTG CTAGATGGAA GTAAATTGTC GGGGGAGAGA GAGGAACCTC TCGCCATGAT	GTCAGTCTTT GCTCAGTGTC CAGCTTCCAA GAATGGTCTT TGCTCCAGAT AACTCTCTTT GGCTTGAGCT AGAGATAAAA CAGAATCTTC CAGGCTTTTG CTAGATGGAA TGGAAAAGCA GTAAATTGTC GGGGGAGAGA GTTAGCATGT GAGGAACCTC TCGCCATGAT CAGACATACA	GTCAGTCTTT GCTCAGTGTC CAGCTTCCAA AGCCTAGACA GAATGGTCTT TGCTCCAGAT AACTCTCTTT CCTTGAGCTG GGCTTGAGCT AGAGATAAAA CAGAATCTTC TGGGTAGTCC CAGGCTTTTG CTAGATGGAA TGGAAAAGCA ACTTCATTTG GTAAATTGTC GGGGGAGAGA GTTAGCATGT ATGAATGTAA GAGGAACCTC TCGCCATGAT CAGACATACA GCTGCCTACC	AAAGAGGCCT ATTATTGCTA TCGCCCTCCT TTCCCTTATT GCCTCCAGG GTCAGTCTTT GCTCCAGAT AGCTTCCAA AGCCTAGACA ACCTTTCTGT GAATGGTCTT TGCTCCAGAT AACTCTCTTT CCTTGAGCTG TTGTGAGCTT GGCTTGAGCT AGAGATAAAA CAGAATCTTC TTGGGTAGTCC CCTGTTGATT CAGGCTTTTG CTAGATGGAA TGGAAAAGCA ACTTCATTTG ACACAAAGCT GTAAATTGTC GGGGGAGAGA GTTAGCATGT ATGAATGTAA GGATGAGGGA GAGGAACCTC TCGCCATGAT CAGACATACA GCTGCCTACC TAATGAGGAC CTCAG

- (2) INFORMATION FOR SEQ ID NO:1115:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 477 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

GAATTCGGCC	AAAGAGGCCT	AGTGCCTAGA	TTGATCGGTA	TAAGGCTCAC	TCTCCCGCCC	60
CCCAAAGTGG	TTGATCGTTG	GAACGAGAAA	AGGGCCATGT	TCGGAGTGTA	TGACAACATC	120
GGGATCCTGG-	GAAACTTTGA	AAAGCACCCC	AAAGAACTGA	TCAGGGGGCC	CATATGGCTT	180
CGAGGTTGGA	AAGGGAATGA	ATTGCAACGT	TGTATCCGAA	AGAGGAAAAT	GGTTGGAAGT	240
AGAATGTTCG	CTGATGACCT	GCACAACCTT	AATAAACGCA	TCCGCTATCT	CTACAAACAC	300
TTTAACCGAC	ATGGGAAGTT	TCGATAGAAG	AGAAAGCTGA	GAACTTCGGA	AAAGGCTCAT	360
CTGTCACCCT	GGAGAAGGGA	AACTGTACTT	TTCCCTGTGA	GGAAACGGCT	TTGTATTTTC	420
ΤΟΤΟΤΆΔΤΑΔ	AATGGGGGCTT	CTTTGGAATT	TGATAAGCCT	AGGCCTCTTT	GGCCGAA	477

- (2) INFORMATION FOR SEQ ID NO:1116:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 620 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC AAAGAGGCCT	AAGATGAAGC	CCAACATCAT	CTTTGTACTT	TCCCTGCTCC	60
TCATCTTGGA GAAGCAAGCA	GCTGTGATGG	GACAAAAAGG	TGGATCAAAA	GGCCGATTAC	120
CAAGTGAATT TTCCCAATTT	CCACACGGAC	AAAAGGGCCA	GCACTATTCT	GGACAAAAAG	180
GCAAGCAACA AACTGAATCC	AAAGGCAGTT	TTTCTATTCA	ATACACATAT	CATGTAGATG	240
CCAATGATCA TGACCAGTCC	CGAAAAAGTC	AGCAATATGA	TTTGAATGCC	CTACATAAGA	300
CGACAAAATC ACAACGACAT	CTAGGTGGAA	GTCAACAACT	${\tt GCTCCATAAT}$	AAACAAGAAG	360
GCAGAGACCA TGATAAATCA	AAAGGTCATT	TTCACAGGGT	AGTTATACAC	CATAAAGGAG	420
GCAAAGCTCA TCGTGGGACA	CAAAATCCTT	CTCAAGATCA	${\tt GGGGAATAGC}$	CCATCTGGAA	480
AGGGAATATC CAGTCAATAT	TCAAACACAG	AAGAAAGGCT	GTGGGTTCAT	GGACTAAGTA	540
AAGAACAAAC TTCCGTCTCT	GGTGCACAAA	AAGGTAGAAA	ACAAGGCGGA	TCCCAAAGCA	600
GTTATGTTCT CCAAACTGAA					620

- (2) INFORMATION FOR SEQ ID NO:1117:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 158 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAATTCGGCC	AAAGAGGCCT	AGACCTGCCA	CATTTGTTAA	CATTTTTCCA	TTTCTAAACC	60
ATCCTTAAAG	AAAATCATAT	ATGGGGTCAC	ACCATCCTCA	CGGTAGTCCA	ATAGAGCAAC	120
CATGCCATCT	GGATTCATGT	TTTCACCAAA	CCCTCGAG			158

- (2) INFORMATION FOR SEQ ID NO:1118:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 410 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

GCACTGCTTC	TGTTAAAGTC	ACTGACCTTA	ACAGTTTAGA	ACTAGATAAA	GGAAATTTTG	60
TGGTTGACCA	AATGTGTGAA	ATAGGTAAGC	CAGAACCATT	GAATGAGGAG	GAAGCAAGGG	120
GTGTGGTTGA	GAATTATAAT	GATGAAGAAG	TGTCAATTAG	AGTTGGTGGA	AATACACAGC	180
CAAGTAAAGT	TTTGAACAAA	AAAAATGTAG	AAGCTATTGG	ACTTCTTGGA	GGACAAAAGA	240
GCAAAGCAGA	TTATGAGCTA	TACAACAAAG	CCTCTAATCC	TGATAAGGTT	GCTAGTACAG	300
CGTTTGCTGA	AAATAGAAAT	TCTGAGACTA	GTGATACTAC	TGGGACCCAT	GAATCTGATA	360
GAAACAAGGA	ATCCAGTGAC	CAAACAGGCA	TTAATATTAG	TGGACTCGAG		410

- (2) INFORMATION FOR SEQ ID NO:1119:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 452 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC	TTCATGGCCT	AGTTGCCCTA	ATTTGCAGCC	GAACTTGGAA	GCCACTGTAT	60
CCAATGGACC	TTTTCTGCAG	CTTTCTTCCC	AGTCTCTTAG	CCATAATGTT	TTTATGTCCA	120
CCAGTCCTGC	ACTTCATGGG	TTATCATGTA	CAGCAGCAAC	TCCGAAGATA	GCAAAATTGA	180
ATAGAAAACG	ATCCAGATCA	GAGAGTGACA	GTGAGAAAGT	TCAGCCACTT	CCAATTTCTA	240
CCATTATCCG	AGGCCCAACA	CTGGGGGCAT	CTGCTCCTGT	GACAGTGAAA	CGGGAGAGCA	300
AAATTTCTCT	TCAACCTATA	GCAACTGTTC	CCAATGGAGG	CACAACACCT	AAAATCAGCA	360
AAACTGTACT	TTTATCTACT	AAAAGCATGA	AAAAGAGTCA	TGAACATGGA	TCCAAGAAAT	420
CTCACTCTAA	AACCAAGCCA	GGTTATCTCG	AG			452

- (2) INFORMATION FOR SEQ ID NO:1120:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 592 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

GAATTCGGCC	TTCATGGCCT	ACATGAATCT	ACTTCTGATC	CTTACCTTTG	TTGCAGCTGC	60
TGTTGCTGCC	CCCTTTGATG	ATGATGACAA	GATCGTTGGG	GGCTACATCT	GTGAGGAGAA	120
TTCTGTCCCC	TACCAGGTGT	CCTTGAATTC	TGGCTACCAC	TTCTGCGGTG	GCTCCCTCAT	180
CAGCGAACAG	TGGGTGGTGT	CAGCAGGTCA	CTGCTACAAG	TCCCGCATCC	AGGTGAGACT	240
GGGAGAGCAC	AACATCGAAG	TCCTGGAGGG	GAATGAACAG	TTCATCAATG	CAGCCAAGAT	300
CATCCGCCAC	CCCAAATACA	ACAGCCGGAC	TCTGGACAAT	GACATCCTGC	TGATCAAGCT	360
CTCCTCACCT	GCCGTCATCA	ATTCCCGCGT	GTCCGCCATC	TCTCTGCCCA	CTGCCCCTCC	420
AGCTGCTGGC	ACCGAGTCCC	TCATCTCCGG	CTGGGGCAAC	ACTCTGAGTT	CTGGTGCCGA	480
CTACCCAGAC	GAGCTGCAGT	GCCTGGATGC	TCCTGTGCTG	AGCCAGGCTG	AGTGTGAAGC	540
CTCCTACCCT	GGAAAGATTA	CCAACAACAT	GTTCTGTGTG	GGCTTCCTCG	AG	592

- (2) INFORMATION FOR SEQ ID NO:1121:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 304 base pairs
 - (B) TYPE: núcleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

GAATTCGGCT	TCATGGCCTA	AATAATTTTT	ATTCAGAATA	ATAAATCACT	CTTTATCATA	60
GTATCTTCTC	TTCCCTCTTC	CCCTTTAGTT	TGGATAGCCT	AACTCTGAGA	AGTTAACCCT	120
TAAACAGTTT	TCTGGAAGAG	ACTGAATTTC	TGGGTCCTTG	CAGCTGTGAT	GGTTTCAGAG	180
CTCAGACTGA	TCAGGCATCA	AGCTACCCTC	AAGAGTTTCT	GGGCTGGATG	TTTCAGAACA	240
ACATCTACAC	CAGTAAAGTG	TAATAGGTCA	GTTTCAAAAC	GACCAAAAGA	CCCCACCACT	300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:1122:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 388 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

GAATTCGGCC	TTCATGGCCT	AGTGAAACTC	CATTTTTTA	CTGCTATTAC	TCTGTGTTTT	60
CAGTTTTATG	ATTTGGAATA	CCATGATGGG	AACATCTATA	CTAAGCATTC	CTTGGGGCAT	120
AAAACAGGCT	GGATTTACTA	CTGGAATGTG	TGTCATCATA	CTGATGGGCC	TTTTAACACT	180
TTATTGCTGC	TACAGAGTAG	TGAAATCACG	${\tt GACTATGATG}$	TTTTCGTTGG	ATACCACTAG	240
CTGGGAATAT	CCAGATGTCT	GCAGACATTA	TTTCGGCTCC	TTTGGGCAGT	GGTCGAGTCT	300
CCTTTTCTCC	TTGGTGTCTC	TCATTGGAGC	AATGATAGTT	TATTGGGTGC	TTATGTCAAA	360
TTTTCTTTTT	AATACTGGTA	ACCTCGAG				388

- (2) INFORMATICN FOR SEQ ID NO:1123:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 478 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

AGCAATTCCA	TAAACACATC	CTGGTGTCAT	CACAGCCAAG	GTTTTTAGGT	TGCTATACCA	60
ATGGCTTATT	AAATGAAAAT	GGCACTAAAA	GTTTCTTGAG	ATTCTTTATA	CTCTCTGCCT	120
TCAGCAATCA	ATTCCATTCA	TACATCAGCA	CTCTGCTGGT	TCTGTTTGAA	ATATGTTCTG	180
TATTTAAAAC	TCAAATCTTG	TTGGATCTCT	GCAGGGCTTG	TGACCAATGA	AGTCATATTT	240
GTTGATGGTT	GACAAAGCTT	GCTTCACTCC	ATCAGAGAAT	GACTATCAAT	TTTTTTTTAA	300
CTGTCCTATC	ACGTCCTCTC	CTGTCACCCA	TTTTGAAGAG	TGGCAGAACT	TGAAGTTCAA	360
CTTCCTCTGT	AAATATCCAA	GTATAAAGCC	CAGGAACTTC	TAGAATAACC	CAGATGCGCT	420
TTAATTTTTT	TTAATATGTT	TTGATCACAG	AACTCCTTAG	GCCTCTTTGG	CCGAATTC	478

- (2) INFORMATION FOR SEQ ID NO:1124:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 450 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

GAATTCGGCC	AAAGAGGCCT	AGGAATTCAG	TGCAAACACT	ACTTTGAACT	GTGGTTCCTA	60
ATTTCCACGA	AAGTTTTTCT	CTGTTCTTCT	ATTATGGCAC	TTTTCAGGGT	CTCCCTTGTA	120
CATTTTAGTT	TTTGTGTTTT	TCAGTAAGTG	CCTTGAGATC	AGGGACCGGT	TCTACTGGTC	180
TGTTCCAACC	ATAGTTCCTT	AAACATTGTG	TTCCATTAAT	ATTGGGTGAA	TTGAAATGAA	240
TTTATAGGAA	GCTCCTTAAC	CTGGGGTCCT	CAGACCTCTA	TGGGGTCCAT	GGACAGAATT	300
TGAAGTGGGA	AGGATATATG	AACTTGGATG	GAGGAAAATT	ACTTATTTGT	TTTTTACCAA	360
CCTCTCCTTT	GTAATTTAGC	CATTTGTTCA	ATTATAATGT	AGGCAAATAA	TAAAAATAAA	420
AAAAATAAAA	TAAAGGCAGC	TTAGGCCTCT				450

(2) INFORMATION FOR SEQ ID NO:1125:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 550 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

GAATTCGGCC	AAAGAGGCCT	ATCCTTAGTG	GATTCCGACT	TCCATGGCCA	CCGTCCTGCT	60
GTCTATATCA	ACCAACACCT	TTTCTGGGGT	CTGATGAGCG	TCGGCATCGG	GCGCCTTAAC	120
CCGGCGTTCG	GTTCATCCCG	CAGCGCCAGT	TCTGCTTACC	AAAAGTGGCC	CACTAGGCAC	180
TCGCATTCCA	CGCCCGGCTC	CACGCCAGCG	AGCCGGGCTT	CTTACCCATT	TAAAGTTTGA	240
GAATAGGTTG	AGATCGTTTC	GGCCCCAAGA	CCTCTAATCA	TTCGCTTTAC	CGGATAAAAC	300
TGCGTGGCGG	GGGTGCGTCG	GGTCTGCGAG	AGCGCCAGCT	ATCCTGAGGG	AAACTTCGGA	360
GGGAACCAGC	TACTAGATGG	TTCGATTAGT	CTTTCGCCCC	TATACCCAGG	TCGGACGACC	420
			CACCAGAGTT			480
CAGGCATAGT	TCACCATCTT	TCGGGTCCTA	ACACGTGCGC	TCGTGCTCCA	CCTCCCCGGC	540
GCGGCGGGCG						550

- (2) INFORMATION FOR SEQ ID NO:1126:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 381 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

GAATTCGGCC	AAAGAGGCCT	AGTTTGCAGG	AAGAAGGCAT	GGGATAGTCT	GAGAACAAAC	60
AGGCACTAAA	TGGAGCAACA	TCATCTTGAG	${\tt GTGTCAAGCA}$	GGAGCTGGGA	GACCAGCAGA	120
GACTCCCAAG	GCCTTGCTGC	TGTTGGTCTG	CAGGCAGCTC	TGTAGGGCAG	GCTGTTGTCA	180
TTTTGCAAGT	GAGCAAGCAG	AAGCCCAGGC	AGGTGAGTCA	TTCACTCCAC	AGTTCATAAC	240
TTGGATTGTG	GGTTAGTTAC	ACCTGACTCC	AAAACTTGAC	TTTTTACTAC	TCAGCTATAC	300
TGGCCTCTCA	AGAAAGGCTA	GGCCCTAATT	TCTAGACTCT	CTTTTACCAA	TAATACCTGT	360
TGCCACGAAG	TAGGCCTCTT	T				381

- (2) INFORMATION FOR SEQ ID NO:1127:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 361 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

GAATTCGGCC	AAAGAGGCCT	ACTCTCAAGG	TGGGCATATG	CAAAACATAA	TCTCTAAATT	60
CTTCAATACT	AAGAAATACC	TTTGTTTTAC	CCCTAAAATC	AAATGCCATT	TTGGCTGGAT	120
ATAGGATTCT	AGGATTAAAG	CCTTTTTCCA	GCAGAACTTT	GAAGACATTG	CTCCATTTAC	180
TTCTAGCATC	CAGTGTGTCC	AGTGATAAGT	CTGCTGTCAA	CCTGATTCTT	GTTCCTTGGT	240
AGGTAATTTC	TCTTCTCTCT	CTAGAAGCCC	TTATTATTTT	CTCTTTATCA	CTAGAATTCC	300
AAAATTTCAC	CAAGATGTGT	CTAGGAGTCA	GTCTCTTTTC	ATCAATTTTA	CTAGGTACTC	360

(2) INFORMA	ATION FOR SEQ ID NO:1128:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1128:	
GCAGCCAGGC TGACTGGGAG AGTATCAGCC GGATGGCGGG AGAGCTTTTT		60 120 180 240 300 359
(2) INFORMA	ATION FOR SEQ ID NO:1129:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1129:	
AGACTCGGAT GGACTGTACC GATTGCCCAG	TCCTCAGAAA GCAGCGTCCC CTCTCACAGT ATGTCCTCCC GACGGGACAC ACCCAGGATG CCAATGACTC AAGCTGTAAG TCATCTGAGA GGAGCCTCCC CCTCACCCCA ACTCCATCAG CATCGATGCC GGTCCCCGGC AGGCCCCCAA ATCAAGCGCA ACCTCTCCTA TGGAGACAAC AGCGACCCTG CCCTAGAGGC CCCCCACCCG ACCCCTGGCT CGAG	60 120 180 240 274
(2) INFORMA	ATION FOR SEQ ID NO:1130:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1130:	
GGGTCATGCT ACAAGCCTGG GGAGAGAGTT CTGTTCATTC	CTTCCCTGCG GAGATGAGGG TGGTGGCCTC CCTTTTTGTC ACCCTTCCAA CGTCTGCTGG CTTTTCTCCA AGATGCTGCC AAAAATGATC TTAA1AAGAC TTGTGATATT TTCCTGATTC AAGTGTCTCT GTGGTTCTTG GTTGCCTTCA CAAGCCTCTT ATGGTGGTTT GTGAGGCCAG GCCTGAACTA GCCCCATCGT ACCACCCCAG TATCCCTGCT GCAGGTTTTT AAAGATCTCA TGTCCCTGAT TGTGTCTGAC TCGAG	60 120 180 240 300 325
(2) INFORM	ATTION FOR SEC ID NO.1131.	

PCT/US98/06956

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 639 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

CTCGAGGATC	CCCGGGGACG	GGACGGGCCG	GGGCTTGGAG	GGGGGTCGGC	TGCCACAGGC	60
TCACATCACG	GCCTCCATAT	GCAGGATCCT	CAGGGCCTCG	GAGATCTGCG	CGCTGGGGTC	120
CATCTGGCCG	TACATGCCCA	CCAGGAAGGC	CCGGTGGAGC	AGCACAGCCG	CGTGCTCTTG	180
GCACAGGAGA	GCGTACTCAG	GCAGGTTCCG	GAGGGCCGTC	TGCACCACCT	CAAAGTCCTG	240
GCTGCCCAGG	CAGTACATGA	ACGTNGGGCA	GGAAAGCGGC	TGCAATGCNG	GGGGCTGTCT	300
GCATGGAGCG	CAGGGCCAGG	CTGAAGGCGA	GGTTGCGGCA	ACACTCCTCG	GCCGAGCTCA	360
TCAGCCGCTG	CAGGTTGGTC	GAGAAGAAGC	TCAGGATCTC	GGGTCTCCGC	CGGGACATCT	420
CGTCTATGTC	ACTCAGAACC	TCCAGCAGAT	CCTCCACCGT	TTGGCCCCGG	GAAAGCCGTT	480
TCATGTAGGG	GGCCATCTCG	GCCGCGGTCA	${\tt GAGGGGTGAA}$	CAGGGAGACG	CTGACCAGGG	540
GCAAGGAGCC	GGCTGAGCTC	TCCTCCTCGC	CCTCTTCGTC	CAGGCCTCGG	TCGGTCCTGT	600
CGTCCCTGCT	GGGCAGGCTG	AGCCCTGCAA	GGAGGGATC			639

- (2) INFORMATION FOR SEQ ID NO:1132:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 448 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

GGTCTGTGGT	CTTGGAGGCT	TAAATTGTAA	AATACATCCC	TTATGGAATC	CTAAATTCCT	60
CTAGGTGTTT	TTGGAAGGCG	CATTTGAGCC	${\tt TTGTGAGCTA}$	AAATGGAATG	GATTTAATAT	120
TTCCTATCTG	GCATTTCCAT	CTTGCCCCTG	GTACACAAGT	CACTGGCCTG	GAACTCAGCC	180
TTGATTCACT	GTCCGTCTTC	ACGGATTAGC	TGTGCTGTTA	TGTTGTCTGT	GCTGCAGATT	240
GGCCCATGTG	GGAAGTCGGG	GGGGACCTGA	TTTCCTGCTT	GGAAGACTTG	GGGGACTGCC	300
GAGCATATCA	AAGTGTTTAT	AGTCACCAAG	TGAACTGCAG	CACAACCATC	TCCTCTCCAG	360
CAAGCCCTGA	AGTCAGTAGT	GCCTGCAGGT	GAAACCAACC	AGCCCTGTGT	TAGAGGAGGA	420
AAAGCGGAGA	TGACGTGGAA	GTCTCGAG				448

- (2) INFORMATION FOR SEQ ID NO:1133:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 372 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

GAATTCGGCC	TTCATGGCCT	AGGGCTATGG	CCGGAGCTTG	AGATACGCCG	CTCTGAATCT	60
TGCCGCCCTG	CACTGCCGCT	TCGGTCACTA	TCAACAGGCA	GAGCTCGCCC	TGCAGGAGGC	120
AATTAGGATT	GCCCAGGAGT	CCAACGATCA	CGTGTGTCTC	CAGCACTGTT	TGAGCTGGCT	180
TTATGTGCTG	GGGCAGAAGA	GATCCGATAG	CTATGTTCTG	CTGGAGCATT	CTGTGAAGAA	240

	TTTGGGTTAC CGAGAGCTTT TGCTGGGAAG ACGGCAAACA AGCTGAT GACTCCGACC TCCTGCACTG GAAACACAGC CTGTCAGAGC TCATCGA GAG	
(2) INFORMA	ATION FOR SEQ ID NO:1134:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 452 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)) MOLECULE TYPE: cDNA	
(xi)) SEQUENCE DESCRIPTION: SEQ ID NO:1134:	
TTTTTAGTGC CCCATTTACA CATAGAAAAC AAGAAGGAAC TTTTATTCTG TATAACACAG CTTAGGTCCT	TTCATGGCCT AGCTGGTTCT TTTATTTTGG TGTCTCAGGG ATGTAAAA ATAATATTAA ATGGCAAAAT CAAATTTCCC AACAATATAC AAAAATAAA AAGGGAAAAA GCTTTATCTA TTTGTATATA TTCTTATATG TATATAAAA TATCTGGAAG TGTATGTAGC AAAGCATTAA CAAATGGTTAT CTCTGGG TAGAACTGAA GAAGATGTG GTGATAAGGG AAGGTATAACC TTTCTTTT CTGTGCTTGA GTTTTAAAGA ATGAGAATAT TCATGTATTC CTTGTATA AAAACCTCCT TATTAGGAAT AGGAGGCTGA TTTCTTTTTT AATGACTG TTTTTGGGTAT TCCCCCTCG AG	AAT 120 ATT 180 FAT 240 FTT 300 AAT 360
(2) INFORMA	ATION FOR SEQ ID NO:1135:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 283 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)) MOLECULE TYPE: cDNA	
(xi)) SEQUENCE DESCRIPTION: SEQ ID NO:1135:	
AGAGGAGGTA CTTATTTAAC GGTAGCCGTC	TTCATGGCCT AGGAGGAGGG AAGGATTGGG AGCAGTGGGG TGTGAGTG GGGAACCAGA TGGGGAGAAT CGAGCCAAGT TCTGGGTTGG AGGAAAC TGAGCTGGTG GGTTACATAT CTAATGTTGC AGGTGATGAA TACAGGC TAAATCCACC GAAAGAAGTA AATGAAAGTG GTTTCTTGTA GGTCGAA TGGCTGGTTT TTAGGAAACA ACTGATCCTC GAG	TTT 120 TGG 180
(2) INFORMA	ATION FOR SEQ ID NO:1136:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)) MOLECULE TYPE: cDNA	
(xi)) SEQUENCE DESCRIPTION: SEQ ID NO:1136:	
TGGATGAAAT CATACTGCAC	TTCATGGCCT ACTGGAGACT TGTAATTAGT CTAAGCATAA TATGATT ATTTTGGAGT TTGGTTTTGT TTTAAATGTA AATACTCATG AAAAGTA TGTGTCCCTG GGAATATTTT TGTTATCTTT AAAATACTCA GTATTAT CACAGCCTTA CATTTGCCCG GTTTGACCTG GAGGCCGAAA TGAATTG	AAA 120 AGG 180

CTTATGTCCC AGCTGGGTCT CGAG	264
(2) INFORMATION FOR SEQ ID NO:1137:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 653 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:	
GAATTCGGCC TTCATGGCCT ACCACGTTTC CTCACCTGTA AAATGGACAC TCTGCTGTTC CACATTGTTG ATAGAACTGG ATGCTGTGGT GACATTTGGG GGTGCCTGGG GTGGGTGGGT GCCCAGGCCT GTGGGCTTC GTCTTTCATC AGATCCCAGA AAATTAAGAT TCTCAAAACA TAACTGTCGG AAAGGGCTTT TTGGTGGCCT CTTCCTGCCT CCAGGGGCTCA TGAGATAGGC TGACTTCATA GAGGATGAGG AAGTCTCTCT CCTCTTCAGA TACTGACCCT CTCTCTCTT TGCCCAGAAT AGGGCTTTGG TTATCTTGAA TGAATGAACTA TAAACTCACA GAGCCACCTA AAGCCCTCTT TGGGTTCTGC TCAGCTTGAG GGCATCACCT GGCTGCATTT TCCAGGAGGT GTTTTCTAAG CTGTATCTAT ATAGGAATGG TAAGTCATTG TAGACTGAGA GAAAGGGAAT AAGAGTCTGT TCCAGACCAG CAAGCTTAGG CAGCTGGGG CAGAGGGCAC TGAGAATGAG GCCCTAGCTC	ACACTATCAT 120 AAAGAACTTC 180 TGAATCCACC 240 TGAAAGTTTT 300 ATTTCCTTGG 360 GGTGTGATCT 420 AAAGGCCACT 480 GGAGGAAAGC 540 CTAGGGCTGA 600
(2) INFORMATION FOR SEQ ID NO:1138:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:	
GAATTCGGCC TTCATGGCCT ACAAAAGGTT CTTGATGACC ACCACAATCC AAAGATCTTC TGCAAGACCT AAGCTCTACC CTCTGCATTC TTATTAGAGG TCTGTATTAG TGGGAAACAT CAATATTTGG ATTTGCCGAT TAGAAACTAT CAACAACAGC TACAGGATCT TCAGATGACT AAGCAAGTGA ACAATGGCCT GACCTTCCTC TGCACATGCT GAACAACATC CTATACCGGT TCTCAGACGG ATCACCATTC TCGAG	AGTAGGGAAG 120 TCTCGCCTGG 180 CACCCTCAGT 240
(2) INFORMATION FOR SEQ ID NO:1139:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:	
GAATTCGGCC AAAGAGGCCT AGTTAATACT TATTTTATTT	

60 120

TATATCAGTT TCATCCTCCT GAAAAACTCT TTTCCAGTGT ATCCTGACCT GCTCTAATTT TGACTTGATG CTTTCTGTAT CTGGTGCACA GCTGTTACCT TGGAATCTTC CCTTCATCAT TATTCAGAGT GTTTCTGTAG TTTTTCTCTT GCATTGGATT TTGTGCTTCC TGAATCCTCT CGAG	180 240 300 304
(2) INFORMATION FOR SEQ ID NO:1140:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:	
GAATTCGGCC AAAGAGGCCT AGGGTTTTGT TTGGTTTGGT	60 120 180 240 300 303
(2) INFORMATION FOR SEQ ID NO:1141:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:	
GAATTCGGCC AAAGAGGCCT AGTAGCTTAG TTATTGTTTA CTTTGAAGCC CTTTTGCCTC TACTCTCTCC CATATATCTT CTCCTGACAG GGTGAAGTCA CCTATAGCAT TTCCTAGTGT ATGGAAGTAT TAATTTCTTT CTTTACTGGA AGAGCTACTA GCTTTTCTTC ATACAGTTTC CTCTGCTCCA GTTTCATAGA TTTCTTTTTG GCTTGTATCT GTTTAGGATC AGGTGATATG GCTTCATTTC TCATGACTGA AGCCCGCAA CATAACACTG AAATTCGAAT GGCAGTCAGC AAAGTGGCTG ATAAAACGGA TCATCTCGAG	120 180 240 300 330
(2) INFORMATION FOR SEQ ID NO:1142:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:	
GAATTCGGCC AAAGAGGCCT AGAGGGGAGC CTGGCCTCTG GCATATTCAT CAAGTATGAG TTCTGGGGAT GAGTCACTGT AATGATGTGA GCAGGGAGCC TTCCTCCCTG GGCCACCTGC AGAGAGCTTT CCCACCACT TTGTACCTTG ATTGCCTTAC AAAGTTATTT GTTTACAAAC	60 120 180

240

AGCGACCATA TAAAAGCCTC CTGCCCCAAA GCTTGTGGGC ACATGGGCAC ATACAGACTC

ACATACAGAC ACACACATAT ATGTACAGAC ATGTACTCTC ACACTCCAGT CGAG	294
(2) INFORMATION FOR SEQ ID NO:1143:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:	
GAATTCGGCC AAAGAGGCCT AGTTTTAGTT CAGAATAACA TTAATTTTGA GAGATTGAGG TAAAGAACCT TAACTAATGC TAAGGAGTTT ATTTTGATTA ACATAGGTTA TTCTGACCAC CACCTCTTCC TTCCTTAATC TCCTTAGAAT CTGACAGTCT CAAAGCTGTC ACACAAATTA GACTAATTTT GACACTTTGA AATGAAAACT TCAAGGAAGA AGTAGCCACG GACAGTTATG TTTATAATCA GTAGGTGGCA CTCTTTCCTC AGGTAGCCCC CCATTTCAC ATGATGTGTT TGAAGGTTAA ATGCCACCAA AAGTGCTCGA G	60 120 180 240 300 331
(2) INFORMATION FOR SEQ ID NO:1144:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 508 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:	
GAATTCGGCC AAAGAGGCCT ACTTCAGCAT GACTACTCAG TTGCCAGCTT ACGTGGCAAT TTTGCTTTTC TATGTCTCAA GAGCCAGCTG CCAGGACACT TCCACTGCAG CTGTTTATGA GCATGCAGCG ATATTGCCCA ATGCCACCCT AACACCAGTG TCTCGTGAGG AGGCTTTGGC ATTAATGAAT CGGAATCTGG ACATTTTGGA AGGAGGGATC ACATCAGCAG CAGATCAGGG TCGCCATATT ATTGTGACTC CAGAAGATGC TATTTATGGC TGGAACTTCA ACAGGGACTC TCTCTACCCA TATTTGGAGG ACATCCCAGA CCCTGAAGTA AACTGGATC CCTGTAATAA TCGTAACAGA TTTGGCCAGA CCCCAGTACA AGAAAGACTC AGCTGCCTGG CCAAGAACAA CTCTATCTAT GTTGTGGCAA ATATTGGGGA CAAGAAGCCA TGCGATACCA GTGATCCTCA GTGTCCCCCT GATGGCCGTT CGCTCGAG	60 120 180 240 300 360 420 480 508
(2) INFORMATION FOR SEQ ID NO:1145:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:	
GAATTCGGCC AAAGAGGCCT AAATTGCTGG CGGATTTAGA CCGGTAGAAA ACCCGGGATG GTTTATTTTG ATTGAGCCCC CTCTGGGTGG CAGAGAGGAG GCTTGGGCTC TGGGCCCTTT ACGTTTGGAG AAATGGCTTT ATCAGCTCAG TTGAAAGGTT TTTCCCTCTA GCTAGTGAAA GATAAACTTG GAAATGCAGG TTTCTCCAGC GGTTGGTGGT GGGGACAGGG GTCGCCTAGG	60 120 180 240

GAACTTGCAG GGGCCGCGGC CTCTGTTGTG CTCTTCTGGA GAGTGCACTG TTTGTGGAAC TTTTCTAGAG TGGCAAAAAC GATCTCCACT GTCGGTGAAA GGGCAGTTCC TGAAGTCAGC TCATGGTCCT GGCTCCCCTT CTCCCCAGCA GTGAACTGGG GGTGACTTCC TGATCTGCCC AGCACAGGAG AGCCCCGCAA AGCGCCTGGG AGGCCCTCGA G	300 360 420 461
(2) INFORMATION FOR SEQ ID NO:1146:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 291 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:	
GAATTCGGCC TTCATGGCCT ACCATTTTGG ATTGATTTT GTGTATAGTG TAAGATGAAC CCAATTTCCT TCTTTAGCAT GTGGGAATTC TGTTTTCTG TCACCCTTTT TTTTTGAGAT GGGGTCTCAC TATGTTGCCC AGGTTGGCCA TCAACTCCTG AGGTCATGG ATCCTCCTTC CTCAGCCTCC TGAGTAGCTA GGACTACAGG CATGTGCCAC TGTGCCTGG TCCAGCAACA GTGTTGTAAG AGACTGTTCT TTATTTACTT ATTGATCCT CTGTGCTCGA G	60 120 180 240 291
(2) INFORMATION FOR SEQ ID NO:1147:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:	
GAATTCGGCC TTCATGGCCT ACCCACCTGC CCACGCCGAC TTGGGAGGAT GGTGGCCTGC AGCGGCCAAG AAGCCAAAAAA AAAAAATTTT TTTTTTTTCA GATACTGTGC TTGATTTTTG GAGAGGGGAG AGGTGGAAAT TCCTAAATGG CTAATGCACT GTTCCCTCCA GCCCGAATGC CCGAAACATT TTTTCCGAGG ATGAACAGGG GACATCTTTA GGTTTCCCAA CTCTTGCTTT GGTGTTTTGCC GCAGCATGGA AAACAGGCAC CCCTCGAG	60 120 180 240 300 338
(2) INFORMATION FOR SEQ ID NO:1148:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 385 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:

GCAGGAATCA	GATTCACTCA	TTAGTAAGCC	GCACTCGCTG	AAGGGGAGAG	CATGAGCAAG	60
GCAGACGTGA	GCCACTGCGC	CCGGCCTGAA	GAGTTTTTGC	TAATTGGATA	TTAGGGAAAA	120
CCACAGGATG	GATTAAGACA	AGAGAGGGAA	GGTAAGGTTC	TAGACAGCAG	GATTATGTCT	180
GTTAGTTGGT	TTTATGTCAC	TTTTCTAGCC	AAGCTGTACC	ATCCTGTTTT	TGTTGGTTGG	240
TGAATGCTTC	CAGCTCTTTT	CCTCCAGCCC	TTGGAAGAGG	TGGTCCTATA	ATTGTTAAGC	300

ATCTAGCTAG GGTGATGAGT AGGAATAGCA ATAAGTGACA GGGAAGTTGA AGGCTGCAGG GCTCTTTGCA GGCGGCTTAC TCGAG	360 385
(2) INFORMATION FOR SEQ ID NO:1149:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:	
GAATTCGGCC TTCATGGCCT AGTCACATGA ATGAGAGAAT TCTAAATGCA AGAAATGTGC AAAGGCACAG AAACACAGAA GAGCATGTTG TACAACCTGG CTATAGTTTA GATTTTGTGT GTGCTGTATG AGAGTGTGC TGTGCTGTGA GTGTGTTGT GGGCGCACGC ACGCATTTGT AGGAGGTAGG GAGAAGAGTG CCGGCATAAC ATGAAATGAT ATTGGACCTC AAATGGTATG CTAAGATGTT TGACAATTTT ATTCTAAGCA GTGAGTTTTT AAATTTAGAC ATGCAATCTC GAG	60 120 180 240 300 303
(2) INFORMATION FOR SEQ ID NO:1150;	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 419 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	¢
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:	
GAATTCGGCC AAAGAGGCCT AATTGAATTG TATTGGTCTT TTTCTCTTTA ATATTTAGG TGCTTTATTA TATATTAGGA TTATTAGTCC TTAGTTTGTG AAAATAAGCTG CAAAATATTT TTCCCCAATT TTTCTTTTGT CTCTTTGCTT TATTTCTGGT GTTTATTTT CCCCAGGTGT ACTGCTTTCT ATAGCCAAAT TATTGATCTT TTCTTTAATT GCTTTTTTGT TCACTCAAAG GAAGGTTTTC ACCACTGAGA GGTTATAAAA TAATTCACTC ATATTTTTAC TCTTTTTTT TGCTTATGTT AATTTTTTGT TTGGAACAAT CTCAAATTCA CAGAAGTGTT GTGAGTACGT TGCAAAATAAC TTGTTTTTC CTTATGCATT TCAGAGTAAG TTACCAGTCC GCGCTCGAG	60 120 180 240 300 360 419
(2) INFORMATION FOR SEQ ID NO:1151:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:	
GAATTCGGCC AAAGAGGCCT AGCGGATGGA GTCTTTGACA GTGTTTTTGA TCTCCTGCAG ACGCTGCTC AGGAAGCTGT TGACCCGATC CAGTTCCCGG TCGGGCCACT CCAAGAGCCT CTCCCTGGCA GGCCTTGGCT CCCGGCTTCC AGAAACACGA TTTGCCTGCT TTAGAGCTTC TGCTGCCAAC TGGGCCTTCT CCTTTTCCTT CTTTTTCAGC TTGTGCCGGG CCCCCTTGGC GGCCCTGGCG CTGTTGGGGA CTTTGGGCTC CGTGCTGTTG ATGAATTCCA GCAGCTCATC	60 120 180 240 300

CACATCTCGG TGGTCCACGG CGGGCTCCCC AGGGATCCCG CCCAGGGTGC CCCCCTTCAT GGGCAGCTCC TCTTTCCGCC TGGTCAGCCT CGAG	360 394
(2) INFORMATION FOR SEQ ID NO:1152:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 426 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:	
GAATTCGGCC AAAGAGCCTA CTGTGAATCA CGAACTGGCT GAGGGCGGCT GACCGCTTGT AGCTGTTCCG GCCATGCACC ATAAGAACCG GCCAAGATGC TTAAATTGAG TGATGGAGAA GTCTGCAGCC AACGAAGCCT GTTTTCCTTC CTTTCCTTCC ACTCCCACGC CGCAGTCAGA TTCCTGAATC ATGCTGACGT CATTGCCTCC GTCCCCTACT GCACAGGTGA GCTTGCCCGT GCGCTCCTGA AGCAGGCGCA CGATCTGGGC CTTCTGGGTG GGGGCACATC NGCAGCAGAC TACGGCCGGG CACTGGCAGG CCAGCTCCAT GAACTCGTAC TCATAGTACT TGAGGCAAAC CTCCAGGGAG TCTCCCGAGA TGACCAGGGC ACAATCATGC TTCCTGCGGA AGGCGTTCAG CTCGAG	180 240 300 360
(2) INFORMATION FOR SEQ ID NO:1153:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:	
GAATTCGGCC AAAGAGGCCT AAGCTGATAT TTATTGGACA TTTGCACCAT GCCAAGCATT CGGCTTGGAT TATCCCATTT GTTCTCACA GCCGGTATTT ATTGTCTGCT CCTCTGTGCC AGGTGCTGTG CTCTGGGCAG GGGCACTGCA TGGGCTGCCT GCCCTGGTGG AGCTTGTGGT CTGATGGGTG AGGCTGACCC AAGCCCACCC CATTGCCAAC AGGGCCAGGG CAAGAGTACA CACAGGGGCC TCATACCATA TGTCCTCGAG	60 120 180 240 270
(2) INFORMATION FOR SEQ ID NO:1154:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 582 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:	
GAATTCGGCC AAAGAGGCCT AGCTGAAATC ATTCTGAAAA CTCAAACAGT AGACTTCAGC ACACAAGGAA AGCCAAAGCC ATTTGAGGGG GAATAAAGCC AAAAGCCTTT CACCTTATTC	60 120

GTTCCAAGAA TCTCACCGCC CCCTCCTTAT CCCCCTCCAA AAATAAGCCA TTGCACACAG ACAGGCAGCA TGGCTAGCAA ACGAAAATCT ACAACTCCAT GCATGGTTCG GACATCACAA GTAGTAGAAC AAGATGTGCC CGAGGAAGTA GACAGGGCCA AAGAGAAAGG AATCGGCACA

180

240

CCACAGCCTG ACGTGGCCAA GGACAGTTGG GCAGCAGAAC TTGAAAAACTC TTCCAAAGAA AACGAAGTGA TAGAGGTGAA ATCTATGGGG GAAAGCCAGT CCAAAAAAACT CCAAGGTGGT TATGAGTGCA AATACTGCCC CTACTCCACG CAAAACCTGA ACGAGTTCAC GGAGCATGTC GACATGCAGC ATCCCAACGT GATTCTCAAC CCCCTCTACG TGTGTGCAGA ATGTAACTTC ACAACCAAAA AGTACGACTC CCTATCCGAC CACAGACTCG AG	360 420 480 540 582
(2) INFORMATION FOR SEQ ID NO:1155:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:	
GAATTCGGCC TTCATGGCCT AGGATCCGTG AGGGAGACCG CATCATCCAG ATTAACGGTG TAGACGTCA GAACCGGGAA GAGGCGGTGG CCATCCTGAG CCAGGAAGAG AACACCAACA TCTCCCTGCT GGTGGCCCGA CCTGAGAGTC AGCTGGCGAA AAGGTGGAAG GACACGCACC GGGATGACTT CCTGGATGAC TTTGGCTCTG AGAATGAGGG GGAGCTGCGT GCTCGTAAAC TGAAATCACC CCCTGCCCAG CAGCCCGGAA ACACTCGAG	60 120 180 240 279
(2) INFORMATION FOR SEQ ID NO:1156:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 353 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:	
GAATTCGGCC AAAGAGGCCT ACATTGTTAA TATAATTTAA CAGAAGTTGT GAAACTAAAA TTTTCTAAGA TTAACTGGTA GTTCATTGTA AATGAACATA ATGAACAGAA TTTATGACTC CACTGTGGAA AATGCTATCA AATAACTAAG GAATATATAT GGAATAAGTG TACATATGTA AAATATTGTT ACTAGAGTTA GATATGTGCC AAAGTCCATT TATCCCAAAAT CCTGTCTGAA AAGGAGGGGGT ACATTGGTAA ACATTTTGGA GTGCTTAAAA ATGCCAAAAA CAAAATGGTA ATTTCTACTT TGATAAAGTA AAAAGTTAA ATGTGTGTAA AAAAGTGCTC GAG	60 120 180 240 300 353
(2) INFORMATION FOR SEQ ID NO:1157:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:	
GAATTCGGCC TTCATGGCCT ACGGTGGCCT TTGGGGCCGA AGTGGGCGTG CGGCTCGCGC TGTTCGCGGC CTTCCTGGTG ACGGAGCTGC TCCCCCCGTT CCAGAGACTC ATCCAGCCGG AGGAGATGTG GCTCTACCGG AACCCCTACG TGGAGGCGGA GTATTTCCCC ACCAAGCCGA TGTTTGTGCG TGGAGAAAGA TCGTCTTTCC TCCCTCCCCA TGACCGGGCT TCCCGCGGGC	60 120 180 240

	TTTCCACCCC GAGACGGCCT TTGTAGGGAC CCACTGCCCA CTCCGCTGCT TTCCGCCTCC TAGGGCTCGA G	300 331
(2) INFORM	ATION FOR SEQ ID NO:1158:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1158:	
GTTTTATTTT	TTCATGGCCT AAAAACTTAG ACTGACATCT AGCTTTGACA ATCATAGTAT CCTGAGGGGG AATAACTTAT AATGCTGTTT AGTTTTGTAC TATTGGTGTG TTTAAACTGT GTGCTAACTG CACGATTGAA TTCTAGACCT GCCTCGAG	60 120 178
(2) INFORMA	ATION FOR SEQ ID NO:1159:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1159:	
CTGGAGTTCA CTTTACTGTT AATATTATCT CATGATCATC CATACCTTAT ACCTTGAAAT	TTCATGGCCT AAGCACTTTG GGATGTTGAA GTGAGGGGAT TGCTTGAGCC AGACCAGGCT GGGCAATATC GCCAGACCCC ATCTCTTAAA AAAAGTAGTT GCCTCTATTG ACTCTTGAAT GCAAGAAAGA ACATTTGCCC TTTGACTTCT TATATTCTCT CTTCTTCAAA AGATCAGAAG CACATGCTGT AAACATCAAT TTTGTCTCCC TTATCAGATT GTCAAAATTA TATCTTTTCC TATTTTCCTG CTTTTTCCTA AATTCTCAGT TCTCCAAGTT CTCAGAAATC ATAACTTCAG GATGACTCTG TCCCACCCC ATCGTCTCGA G	60 120 180 240 300 360 401
(2) INFORM	ATION FOR SEQ ID NO:1160:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1160:	
GTGCACTGGG CGGGTTAAAA TTCTGTTCTC CGTCCTCTGC GCTCCCTGGC	ACACGENTGE GGTAAGAAGG GCCTGGTGGG AGGAGTTCAC AGAGCAGACG ACCAGGAGAG CAGAACACAG GCCATAACTA TAGGGCAGGT GGGCAGGAA ACGAGATCCA AGCCAGCCAG ATCGCAGGAG GTGCGGGGGG GTCGTCCCCC CCCCCAAGGT CACAGTGCAT GCAATAAAAT ATATATACAG GAGCTAGATC AGGGCTCTG AGGGTCCAGA GCTCCCTTCG GGTGGCGGGA AGCCAGTGGC GGCCAGGCCG GGCTGGAGCC ACATGCGTCG GGGTCTCGAG	60 120 180 240 300 350
(2) INFORMA	ATION FOR SEQ ID NO:1161:	

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 597 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

GCCCCGGAGC ATCTTAAG	AG CTGAGCGCAG	CTGACAACTA	GGGGCCGGAC	CGTCGCAGGA	60
GGCGTCCGCT GGATACCT	TC CCCCTTCCCT	GACCTAGAGC	TCTACAGCTG	CTGCCTCGGT	120
ACTGACCGAG GGTTCCCA	GA GCTGTCTCAC	CATTGCAAAA	ACGTTATAGC	AACAGCCTCT	180
GATTACGACA TGGCTGAG	AT CACCAATATC	CGACCTAGCT	TTGATGTGTC	ACCGGTGGTG	240
GCCGGCCTCA TCGGGGCC	TC TGTGCTGGTG	GTGTGTGTCT	CGGTGACCGT	CTTTGTCTGG	300
TCATGCTGCC ACCAGCAG	GC AGAGAAGAAG	CACAAGAACC	CACCATACAA	GTTTATTCAC	360
ATGCTCAAAG GCATCAGC	AT ATACCCAGAG	ACCCTCAGCA	ACAAGAAGAA	AATCATCAAA	420
GTGCGGAGAG ACAAAGAT	GG TCCTGGGAGG	GAAGGTGGAC	GTAGGAACCT	GTTGGTGGAC	480
GCAGCAGAGG CTGGCCTG	CT AAGCCGAGAC	AAAGATCCCA	GGGGGCCTAG	CTCTGGATCT	540
TGTATAGACC AATTACCC	AT CAAAATGGAC	TATGGGGAAG	AACTAAGGAA	CCTCGAG	597

- (2) INFORMATION FOR SEQ ID NO:1162:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 476 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCC	TTCATGGCCT	AGAAATAACT	TAAAATCCTG	AATCAGATGT	TTCTCCGTAC	. 60
ATGGCCTATC	CAGATCACCG	TAGGGTGAAG	CTCAAAGTCA	GCAAGCCTCA	CCCACATACT	120
CAGAGCTTCC	TTTCAGTGTT	GAGACCTTCT	TCCCTCTGAG	CAGATGACAA	AGGAGTTTGA	180
AACCAGCCTG	GCCAACATGG	TGAAGCCCCG	TCTCTACTAA	AAACACAAAA	ATTAGCTGAA	240
ATGGTGACTG	TAATCCCAGC	TACTCAGGAG	GCTGAGGCAG	GAGAATCGCT	TGAATCCGGG	300
AGGCGGAGGT	TGCAGTGAGC	TGAGATCGTG	CCATTTCATT	CCAGCCTGGG	CAACAGAGCA	360
AGCCATCACA	GATTTGGGAG	CAACCAAGAA	AGCCAGGGAC	AGGGTATGCT	TGGTAACCTG	420
GCAAGAGCTG	ACAAAGGGGA	AAAATAAAAC	CCCACAGAAA	GAGCAGGGAA	CTCGAG	476

- (2) INFORMATION FOR SEQ ID NO:1163:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

GAATTCGGCC	AAAGAGGCCT	AGATGAACAT	GAACCTGCGG	GAGCTGTACC	TGGCGGACAA	60
CAAGCTCAAC	GGCCTGCAGG	ACTCGGCCCA	GCTGGGTAAC	CTGCTCAAGT	TCAACTGCTC	120
CCTGCAGATC	CTGGACCTCC	GGAACAACCA	CGTGCTAGAC	TCGGGTCTGG	CCTACATCTG	180
CGAGGGCCTC	AAGGAGCAGA	GGAAGGGGCT	GGTGACCCTG	GTGCTGTGGA	ACAACCAGCT	240
CACGCACACA	GGCATGGCCT	TCCTGGGCAT	GACACTGCCG	CACACTCAGA	GCCTGGAGAC	300

CATCAGCAAC	GGCCACAACC CCATCGGGAA CGAGGGTGTG CGGCACCTCA AG. CGCAGCGTGC TGCGCCTCGG GCTGGCCTCC ACCAAGCTCA CG GTGGCGGAGT TCATCGCTGA GAGCCCCCGC CTCCTGAGAC TG.	TGCGAGGG 420
(2) INFORMA	ATION FOR SEQ ID NO:1164:	
(i) !	SEQUENCE CHARACTERISTICS: (A) LENGTH: 494 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1164:	
TATGCAACTA TCTGCATTAG GTGGCTCTGC CTAGAAAGGG GTAATAAAGA GCCATCTAAT	AAAGAGGCCT AAGGAGCCT GTTAAAGCTG ATACATTCCT GTCACTCAGATTT TGAGCAAACA AAGCTCTCAA GTTGGTGATC CTCTGGACACTC CTCTCTGGACT TATCTTCTAA GTCAACTGTG GCTGAGTTTTCC CTGGGCTTCC ACATTTCCTC ACATTCCTCA ACTGGAGAAA TACAGTCAGA TGGGAAGTAG CCCCTGCTGT CACTGGAGAAA TACAGTCAGA TGGGAAGTAG CCCCTGCTGT CACTGATGGACACA GGCAAGTAAA CCAAAGACTA CACAGTGCAG TACTGATGTACACAG GACGACCTTC CAAATCAAAG CACTGAGG	CAGGAGTC 120 TTGGGTAG 180 NATCAGCT 240 CAGGTACT 300 AGGAGCTT 360 TGGTAAGT 420
(2) INFORMA	ATION FOR SEQ ID NO:1165:	•
(i) S	SEQUENCE CHARACTERISTICS: (A) LENGTH: 298 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1165:	
CAAGCAACTG GAAAAGACAA CATTTTTGT	TTCATGGCCT AACTCTTATC TGTGAACACA ACTTTTCAGC ACCGCAGTCACA GTTGGGGCTC CTAATTTGGA AATCCAGTTT AGCAGCATTTTT GCAATCACTG GTGTATCCTT TACGAGAGAG CTTTTCTGAAGA CGGCCTTTTT TTCTTTTTTA TTATTATTAT TTGCCTAATTCT TTAGTACAAA GCCTGGCCCT AAAACCGTAG AG	GCTGATTT 120 AGTCATGC 180 TTTTAAAT 240
(2) INFORMA	ATION FOR SEQ ID NO:1166:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1166:	

60 120

GAATTCGGCC TTCATGGCCT AGATAGAAAA GAATATTCCA AGTGTATGAA GTATAGAGGT GGGGAAGTTC AGGGTAGAGA AGTANTAGCA GGAATAGAAT ATAGGGGGAC AGAAAAATAG

AGTGGAGCCA	GATTCAGAGA	ACTTTNAGAA	GCAGGTAAAG	AAGTTTAGGA	TTAATGGACA	180
AGTCATTGGG	TCTCCAGGTT	TCTTTGAGGG	AGAGTGATAT	CTGAGCTCTG	TTTTAGAAAG	240
ATTAATCTGA	AAGGAGGTAA	CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:1167:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 499 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

GAATTCGGCC	TTCATGGCCT	AGGTAAATAA	TGCCAAGTTA	CTGGGGTCTA	GAAAGAAAGT	60
TTTCTCTTGG	ATCAAGAGAG	TGTGAGTTTC	CTAAGTTTCT	TCAGCAGGGA	TGTTGGTCCT	120
TTAGTTAGGA	GGTTTAAAAT	CACCAGGAAG	TAAGGGTGAG	${\tt GAAGAAAGTC}$	TGGGTCCATG	180
TTTGAGAAGG	TGACTGATGG	TGGTGGAAGT	CCTTCCTGTG	ATGAGTTAAT	GATGCGTATT	240
TCTGATAAAG	ATGGGAAGTT	ATTTACATCG	ACATTAACCA	AATCTACCCT	TCATGCAGAA	300
AGAAAGAGCT	CTTGGGCCAT	TCTCTATTAA	TGAAACCATA	CCAGGGTCAA	TATTACAGTG	360
TCTCTGAAAT	ACACTGAAAA	TACTTCCCTG	GCTCAGGTGG	TGGCCCATGC	TACCTCCAGG	420
CAGTTCTACT	TGATTAATGA	TGCAATGGAG	ATAATCCTAT	TGCATCCACC	ATCAAGGAGA	480
GTTGGGCAGT	CAACTCGAG	•				499

- (2) INFORMATION FOR SEQ ID NO:1168:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 425 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

GAATTCGGCC	TTCATGGCCT	ACACAAACAA	ACCCAGAATA	CTCTATTACT	GTATTTGTGG	60
GGTACAATCC	ACTCAACTCT	ATTATGAAGC	CCAAAAAATA	AATCTGTTAA	AAACAATAAT	120
AGCTACACCA	ACCTGTTAAG	AGATAGGTAA	TATAAAAATA	TATAGTTTGA	GACAACTAAA	180
TCAAAATGGA	GGAGGGGATA	GAGTTCAAGA	AGTAGAATTT	TTTTGCGTGT	GCTTTTCTTG	240
GCCTTTGTTT	GCTTCTATTC	TTTTATTTGG	AATCAAAGAT	AAGTTATCAA	CTCTTTAAAA	300
TAACTTGTTA	TATGTATAAG	ATGTTTTCTG	TAAGCCTCAT	GGTAACCACA	GTACAAAAAC	360
CTATAGTACA	ATTCCTAAAA	ATAAAATACA	AAAAAATTAA	AATATACTAC	CAGAGAGCTC	420
TCGAG						425

- (2) INFORMATION FOR SEQ ID NO:1169:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 318 base pairs
 - (B) ·TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

TGGCCAGCCA AACACCTGTC CTAGAAGCTT	TTCATGGCCT AAAAGGTTTG ATCTTGTAAT GCCTTCAGAA TAGCTAAAGG CCTTCCTTCC CCCTAAGCAC CTGGTGTCTC CATTGGAGGC CAGCCCGGAA GACAGGCTGC TCTCTCATGC TTCCTGATTT TGCCACCAGC CCTACCGAAT CTCTCGAG	TTCCAGTCAG AGACTGCTCT TGGTGGCCCA	CCTGAGAGAG CAGGAGACTA AATTGAGAAA	60 120 180 240 300 318
(2) INFORMA	TION FOR SEQ ID NO:1170:			
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	1170:		
GTTTATCGAT TATTAAGGAT TAACAACATT AAAAGTTACT	TTCATGGCCT ACATTGGTCG TTTTATTGCC ACTGGTTTCT CTTTACCATT CTACAAGCGT TTGGAATCTA TTGATACTCA ATTTTATAAC GAAGAATGTG GCTTAGAAAT GTACTTTTCT TCACATGACC TGAAGTTGGG AGGTTCCAAT TATATTGGTT TAATGACAGA ACGGCGTTCG	ATGTTAAGTA TCCCTTATCT GTTGACATGG ATTCTGGTGA	AAAAACTTAC GGATAAGAGA AGATTTTGGG	60 120 180 240 300 346
(2) INFORMA	TION FOR SEQ ID NO:1171:			
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	1171:	-	
GAATTCGGCC	TTCATGGCCT ACACTTTATT CCCTTTTAAG	TCTGGTAAAG	AATGAATACT	60

- (2) INFORMATION FOR SEQ ID NO:1172:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs

TGGACGTTTT GTTTCATGCA GATTTAGTTA GCAACTCGAT TATCAAATGG TAGAATATCT

GTATGCACTG AAGCCAAATT CTCAGTAACT CAGCTTTTGN TAGTCATATG AGGATGATGA

ATAATAGGAN TCCAGAGCAG TTAACAAATT GATACAAGTG GTAGGAAAAT TTGATATGAA

120

180

240

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

G	AATTCGGCC	TTCATGGCCT	AGTTTCNTTT	TTGTATCTCT	ACTGATATCA	CCAGGATAGT	60
N	TACTCTCCT	TCTAGCTTTC	TGCTTACCGC	ACACTGGATA	ACACACACAT	ACACACCCAC	120
P	AAAATGCTC	ATGAACCCAA	TCCGGAGAAG	GTTCCAGCAG	GTCCCCCACC	CTCCCCTCCT	180
C	CTCCTACTT	CTCCTCTTGA	CAGCGAGGAC	AGGAGGGGGA	CAAGGGGACA	CCTGGGCAGA	240

277

CCCGCCGGCT CTCCCCCCAC CCCACCCCCA TCTCGAG

(2) INFORMATION FOR SEQ ID NO:1173:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:	
GAATTCGGCC TTCATGGCCT AGAAAAGTCT AGAAAATAGC TTAAATAACA AACACGTGTG GATTTGTTAG ACCAAGAGCA AGGGAGACCA TTTAATGCAG TTATTTAACA ATATTTAGTA CTTTCCTTTA CCTTGTCTGC TGTGCCATCA TTCATGCCTG TCAGTGTTAA AAATTCCCCAA ATTTCCCAAA CAGATTTCA TTTCACTTCC GTCAACTTTT AAATTAAAGT TTTTAAATTC CTGTCCCCCAC TCCTCGAG	120 180
(2) INFORMATION FOR SEQ ID NO:1174:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:	
GAAAGTTGCT TTTGATGTCA AAATGGAAAA TGAAAAGTTA GTTTTAGCAT GTGAAGATGT GAGGCATCAG TTAGAAGAAT GTCTTGCTGG TAACAATCAG CTTTCTCTGG AAAAAAAACAC TATTGTGGAG ACTCTAAAAA TGGAAAAAGG AGAGATAGAG GCAGAATTGT GTTGGCCTAA AAAGAGGCTG TTGGAAGAAG CAAACAAGTA TGAGAAAACC ATTGAAGAAT GTCTTGCTGG TAACAATCAG CTTTCTCTGG AAAAAAACAC TATTGTGGAG ACTCTAAAAA TGGAAAAAGG AGAGATAGAG GCAGAATTGT GTCGGCCACT CGAG	120 180 240
(2) INFORMATION FOR SEQ ID NO:1175:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 403 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:	
GAATTCGGCC TTCATGGCCT AGTGCTTGAA CTCACGCATC TGTTTTACCT GCATCTGCAG GCGATGGGGC AGGGGCCACG GAAACAGTCT GAGGGCTGCT TGGTGTAGTC AGGTTGTGTC CAGGCATGCG GAGCTGTGAG TGCCTGCAGG AGAGACACCC AGGAGGAGTT TTTACATTTT GGTCTAAAAA GCTCTTGGAT TCATCTCATC TCATGGAATG ATCCTGTCGG ATGACGCTGA CGTGATTGCT TCAGACTTAG AGGTGAATAA ATTGAGGTCC AGAGAGGTCA CAGTCACGAA GCTCATGGTA GACTGAGGCC ACTAAACACC CGTCTCCTGA TTTTCAGTGG CGTCCTCATT TGCATACACC TGGGCCATCT TGGTTTTTGC AAGAAAACTC GAG	120 180 190 190 190 190

- (2) INFORMATION FOR SEQ ID NO:1176:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 590 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

GAATTCGGCC	TTCATGGCCT	AGGTACCTTG	AACATGGCTG	TAAATTAATC	TTTAACTGCC	60
TTGGTGGAGT	CTTCCTGATT	TATTGAAGAG	AATAATCACG	AAAATAATTT	TTGTTTGTTT	120
TTTGAGACGG	AGTCTCGCTC	TGTCAACCAG	GCTGGAGTGC	AGTGCCACGA	TCTCGGCTCA	180
CTGCAGCCTC	TGCCTCCCAG	GTTCAAGTGA	TTCTCCTGAT	TGAGCCTCCT	GAATAGCTGG	240
GATTATAGGT	GTGCACTACC	ATGACCAGCT	AATTTTTGTA	${\tt TTTTTAGTAG}$	AGATGGTGTT	300
TCACCATGTT	GGACCGGGCT	GGTCTCGAAC	TCCTGACCTC	AGGTGATCTG	CCCTCCTCAG	360
CTTCCCAAAG	TGTTGGGATT	ACAGGCATGA	GCCACCGCAC	CTGACATAAA	TATTTAATGT	420
AATACCGTGT	AAGACTTTTC	CATTGGGTTT	TGAGAAACAC	GTTAATGAGA	GAAATTGCTT	480
AACATTGGAG	AGGATTGCAG	AGAATATTGA	CTAATATGGT	GGGGTGAGGA	GGAACAACAT	540
CAATTAAGAT	TCAGATTTAT	TATTTAAAAA	AACTAAAAGG	CGGCCTCGAG		590

- (2) INFORMATION FOR SEQ ID NO:1177:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 562 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

CTCGAGGTAG	CCACAGTCCT	GATCCTAGTG	ACAAATGGGG	GCATGTGTCT	ACATCCGGGT	60
CGGCGGAGGG	CTCATTTCAT	CTGGCCTGGG	GGGAAATGAG	TATTAATTTG	TTTACACAGA	120
CGTAAACACA	GCCCAAAACG	CATCAGCACG	TTGACTCAAA	CGCCCGCAAC	GCCAGGGCAA	180
AGGCAATTTG	GTTAACAGGG	GGAAGCGAAC	AGACGGAGAC	GCCTGGAGAC	CCAGGTGCCA	240
CAACCCGGTT	AATCGCGGTG	CAAATAAGGG	CAAGTCCCCT	CCCCTTGTCC	GTGTGGTCTT	300
GACAACGACA	CTAGTTCATT	CTACTAACAA	GGCGGGCGGG	GGGTCAGATG	GGCCACACAC	360
ACCCATTTTC	CTCAACGGGA	CCCCAACGCG	ATCTCAGCCT	TGCTGTGCTA	CTTTAGGGCA	420
AGACGCGTTC	CCCATTCGGA	AGCCGCAGGA	AAGCGCGGCG	AGAGCGGGTT	AGCCCTCGGA	480
GCGGCTAAGA	GCCTCGGAAT	AGCGCAGAGG	AAGTCCCCAC	CCCTCTCGGG	GCTGGGAGCC	540
CTAGGCCATG	AAGGCCGAAT	TC				562

- (2) INFORMATION FOR SEQ ID NO:1178:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 339 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

GAATTCGGCC TTCATGGCCT AGAAGCACAG GTAAAACAAG CTGGGGCTTA TGGTCAGCAT

TGGAAGCAGG	GAGCAGAGTG	GGGAAAACAG	CAGTCTTATG	GGACTGAGTC	CTCAATCTGT	120
GTGATCTGAC	TCTATCTGCA	AGGTAGTGTT	GGAAGTGAAC	AGGGTTGGAG	AATGCCCAGC	180
TGGTGTCCAC	CGCAGAATTG	ATTTCATGTT	TGGTATGCAG	GGACCCCCCA	CTCCACACTT	240
AGTCACAGAA	ATCTGTGTTG	ATTGTTGTGG	CATGAAAGCA	GGGAAAAATA	GTTTGTTTTT	300
TTCTCCACAC	TTCCTTCCCA	AGATCCCGGC	TAACTCGAG			339

- (2) INFORMATION FOR SEQ ID NO:1179:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

GAATTCGGCC	TTCATGGCCT	ACTCACCGGA	GAAAAGAAGT	TTCNGAAGAA	AACCACAACC	60
ATGCCAATGA	ACGAATGCTA	TTTCATGGGT	CTCCTTTTGT	GAATGCAATT	ATCCACAAAG	120
GCTTTGATGA	AAGGCATGCG	TACATAGGTG	GTATGTTTGG	AGCTGGCATT	TATTTTGCTG	180
AAAACTCTTC	CAAAAGCAAT	CAATATGTAT	ATGGAATTGG	AGGAGGTACT	GGGTGTCCAG	240
TTCACAAAGA	CAGATCTTGT	TACATTTGCC	ACAGGCAGCT	GCTCTTTTGC	CGGGTAACCT	300
TGGGAAAGTC	TTTCCTGCAG	TTCAGTGCAA	TGAAAATGGC	ACATCTCCTC	GAG	353

- (2) INFORMATION FOR SEQ ID NO:1180:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 296 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:

GAATTCGGCC	AAAGAGGCCT	ACAGAGTGCT	GTGCTTAAGT	TTTACTTCTT	TCCACCTTTA	60
AATCTCTGAT	AAGTTTCTTT	TTATCTAAAG	GTTCCACTTT	GTTCATTACT	TTTTGTTTCC	120
TTATTATTGA	TTTGTTCGAG	AACCTGAGTT	TCTTGACCTG	TGTGATTTTG	TACCACCTGG	180
ACTTTCTGAC	TGTGTTTGCC	CAGGCTGGAG	AGCAGTGGTG	GGATCATAGC	TTACTGGACT	240
CAAGCCATCC	TCCCGCCTCA	GCCTCCCAAG	TAACTGGGAC	TATGGGCACA	CTCGAG	296

- (2) INFORMATION FOR SEQ ID NO:1181:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

GAATTCGGCC	TTCATGGCCT	ACTTGAGTTG	TACATTAGAT	CTTTAAACTT	GTTAGTCCTA	60
CATATCTGCT	ATTTTTTATC	CTTTGACCTA	CATTTTCCCA	TTTCCTCCCA	GTGTTCTCTC	120
CCCAGGTAAT	CATTGTTTTA	TTCCCTTTCT	CTGTAAATTT	GACTTTTTTT	TTTGGATTCC	180
ACATATAAGT	GAGATCATGA	TCATGCGGTA	TTTTTCTTTC	TGTGTCTGGC	TTATTTCACA	240

PCT/US98/06956

TAGTATTATG TCCTCCAAGT CTACCCACGA ACTCGAG	277
(2) INFORMATION FOR SEQ ID NO:1182:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: GDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:	
GAATTCGGCC TTCATGGCCT AGAGATACTG GCTGGCAATT CTTGGCGTTC CTTGGCTTGT AGCTGTAAGA TGCGCTCTAA TATCAGTCTC TGTTGTCATT TGCCTTTTCT CTGTGTCTGT GTTCAAATGT CCTTTTTTT TTTTTTTTA GGGAGTCTTG CTCTGTTGCC CACTCAAACT GCTGGGCTCG AG	60 120 180 192
(2) INFORMATION FOR SEQ ID NO:1183:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 296 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:	
GAATTCNGCC AAAGAGGCCT AGTAAATAGT TGTTCTGTTA CATTGTTTAG AGAATAATGA CAAGAACAAA AATCTGTGTG TTCAGGTATAG ACACAACCAT CCTTTTCTTT TTTTTTTTT TGAGACAAGA TCTCGCTCTT GTTGCCCAGG CTGGAGTGCA AGGGTGCGAT CCCAGCTCAC CGCAACCTCC GCCTCCCGGG TTCAAGCAAT TCTCCTGCCT CAGCCCCCCG AGTAGCTGGG ATCACAGGCA TGTGCCACCA CGCCCCGGCTC TTTTTGTATT TTTAGTAGAA CTCGAG (2) INFORMATION FOR SEQ ID NO:1184:	60 120 180 240 296
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 234 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:	
GAATTCGGAC TACTACAGGT GATACTACAG TGACTACTAC AGTAATTCGG ACTACTACAG GTGGCTAATT CGGATTACTA CAGGTGGACA TAATTCGGAC TACTACAGGT AATTCGGACT ACTACAGGTG AGCTAATTCG GACTACTACA GGTGGACATA ATTCGGACTA CTACAGGTGC ACCTGTAGTG GAGAACATTT AGCAATGATA AAGCCGCTGC TGATCCTTCT CGAG	60 120 180 234
(2) INFORMATION FOR SEQ ID NO:1185:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 300 base pairs(B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GAATTCGGCC	AAAGAGGCCT	AGAACAGTTT	AGAAACAATT	TCCCTGCCTT	TGCTTTGGGT	60
TCCCTGTGAT	TGTTCTCCAC	ACTGTTTTCC	TGGCTCTATC	TGTCTCCCTT	GCCACGGCCA	120
CTCAAGCCTA	GCTGCCCAAC	AGCTCCTTCC	CTGAAGAACC	CCGGCCTTCA	GGCTTGACAG	180
GTGATCTCAT	CCCTCTTCTT	TTCCTCCAGG	TTGTTGTAGA	CTTCCACCTT	CCCTTCTTCT	240
CCTGGTCCTT	TCCCCTTTCT	AGTGCCAATG	TGGGCCACGC	TTTCATCCCA	CCTACTCGAG	300

- (2) INFORMATION FOR SEQ ID NO:1186:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 324 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

GAATTCGGCC	TTCATGGCCT	AGTGATGAGC	CCTCCTCTTC	AGCTAGGAAA	ATGACGGTGT	60
TCAGAAAGTT	AAAACTTCTT	CGCTGGAAGG	ATTTCATCTT	AAAGTTGGGA	GACTGGAAGA	120
AATTAAAGTG	TTCTAAATGG	AAGAGCATTC	ACCACATGTG	TTCTGTTTTG	GGTTGACATT	180
TAGCTTTTGT	TTTTATTTTA	GAAACGGAAG	ACTCTGGTAG	CAGTCCTTGA	AATCTTGATG	240
CCATTGCTAT	TTTCTGCATT	GTATTGTATC	TTCGTTTTAG	TAGTGCTCCA	ATAAAAAGAC	300
CTGCTACTAG	CTGCAAAACT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:1187:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

GAATTCGGCC TTCATGGCCT	AGTACGTTGC	TGAAAAGAAG	TTTATTGCTA	TTTTCTTATT	60
TTATTATACA AAACTAGATT	TGCTTAAAAC	ATTTCCCAGT	CTCTTTAAAG	GAATGCTAGT	120
TAGTGGGAGG CCACAGCTAG	TAAATTACCC	TCAGTAGTGG	TTTCAAGTAG	TCCATAACTA	180
TAAAAATCGT TACGGCCAGG	ATATGCCGGA	ACAGAACACT	CCCCACTGGG	GTCCTCAGCC	240
TTGGATGTCA GCTCGGCCCC	TCAAGGGGTC	CCTACACCTG	GAAGCTGATT	CCACTCATCA	300
GTCTCGAG					308

- (2) INFORMATION FOR SEQ ID NO:1188:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 251 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTCGGCC	TTCATGGCCT	AGAATGAAGA	AGGTTCCCAA	GAAGTTAGAG	GAGATTCCCC	60
CAGCCTCTCC	GGAGATGGCA	CAGATGAGGA	AGCAGTGCCT	GGACTATCAT	TACCAGGAGA	120
TGCAGGCTCT	GAAGGAGGTC	TTCAAGGAGT	ATTTGATTGA	ACTGTTTTTC	TTGCAACACT	180
TTCAAGGGAA	CATGATGGAT	TTCTTAGCTT	TCAAGAAGAA	ACATTATGCC	CCATTACAAG	240
CACCACTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:1189:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 359 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

GAATTCGGCC	TTCATGGCCT	AAGGAGTTGG	AAATTGTGCA	CAAAGAAAGG	TGGTGAATAA	60
GTAAAGTCGT	AAATTCAAGA	CCACAACAGA	AAGCTTCACT	GCAGACACTG	GACTTGAACC	120
ACCATTGAAA	ACAGTCAGGA	TTTGGAGATG	ATAATTAGGA	GGATGTGTAT	TCTAGCTGTG	180
GAATTTATTG	TGGGCAAGCA	TAGGAATGAG	AAAGTACAAT	${\tt GAAAAAATGT}$	AAGTAGACCC	240
ACCAAGTTAG	AGAAGAAGGT	CCTGGTTAAG	AAAAATGAAA	GATTTTTTTG	AACAACAGAT	300
TAATGTGATG	AAATAGATGT	TCAAGAGTGA	AGATAAGTTG	AAGATAGGGA	CCCCTCGAG	359

- (2) INFORMATION FOR SEQ ID NO:1190:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 245 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GTTGTTAGGC	TGGTGTTGTT	ATGTTGCTGT	TGTTATGCTG	GTCGTGCTGC	TCCATGTTCT	60
CCAGGTGTTC	TTCCCTTTTA	TCGTCACAGT	TACCCCGTAC	ACCTGACAAC	TGGACATCTG	120
CGCCTGGGGT	CTTCAGCCTA	AACACACCTA	AACCCTCCAC	CAAACCCCTC	TGCTTCCGCC	180
TCCCCGTGTC	TGTGAGCGCC	TCCACTGCCC	ATCCCTCTGC	TCAGGCCCCA	TTTCCAGGGC	240
TCGAG						245

- (2) INFORMATION FOR SEQ ID NO:1191:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCGGCC	TTCATGGCCT	AGTCTCAAAA	AAAAAAAAA	AAAATAGTGT	TCAGCAAGGT	60
TGAAGCATAA	AAGGTTAATA	GCCAGAATCA	TTTATCAATT	GTATTTCTAT	ACATCTACAA	120
GACACAATCT	GAAAATGAAA	TTAGAGAAAC	AATTTCACTG	GGCAACAAGA	GCAAAACTTC	180
ATCTCAAAAT	AATCATCATC	ATCATCATCA	TCATCATCAT	CATCATCTAC	AATGTCATTT	240
CCCATCCAAC	GCTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:1192:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 748 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

GAATTCGGCC	TTCATGGCCT	AAGGACATGG	CAGAGTTCCT	GCTAAAAGAG	AAGACAGTTA	60
TTTAAGGAGG	TTTGAGATTC	AAGGGCTTTT	TTAATTTTAA	AATTAACCAT	GGTAGAAACC	120
TGTGTGTTAA	TATGCTGAGG	GAAGTTGCCA	ATAGTGAGAT	GAAAGATCTA	GGCAAGGGGA	180
TAGCAAGGTG	ACTGCACCAG	ATACCTGGAT	CTGGGCAGGA	ATAAACCTCA	ACAGTGATCA	240
TGTTGACCTT	GAGTGACAGG	GTATAATGTT	TGGGAAGGTG	CTTTGTAAAC	TATAAGGGGC	300
AATACAAACA	TGTAGTACAC	CTTCTCTGAG	ATCCGGGAAA	GGACAACCTG	AGCATAGGTT	360
GGGGCTGGTC	ATAGGCCACT	CTCCCCTACT	GTTTCTCTAG	AGTGTGTGTA	GTCCCTAGCA	420
AGTCTCAGAT	GCCTCGACCT	TCATGGCCTA	GAGAGTTCTC	ATCAGAACAG	GAAGGCAGTG	480
ATGATCCATT	GCATGGGCAG	GATTGTTCTA	CGAAGACGAA	GATCTCCGGA	AAGTGAAGAA	540
GACCCGGAGG	AAACTAACCT	CAACCTCTGC	CATCACAAGG	CAACCTAACA	TCAAACAGAA	600
GTTTGTGGCC	CTCCTGAAGC	GGTTTAAAGT	TTCAGATGAG	GTGGGCTTTG	GGCTGGAGCA	660
TGTGTCCCGC	GAGCAGATCC	GGGAAGTGGA	AGAGGACTTG	GATGAATTGT	ATGACAGTCT	720
GGAGATGTAC	AACCCCAGTC	GACTCGAG				748

- (2) INFORMATION FOR SEQ ID NO:1193:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

GAATTGCGAA	CATGGCAGCG	CGTTGGCGGT	TTTGGTGTGT	CTCTGTGACC	ATGGTGGTGG	60
CGCTGCTCAT	CGTTTGCGAC	GTTCCCTCAG	CCTCTGCCCA	AAGA'AAGAAG	GAGATGGTGT	120
TATCTGAAAA	GGTTAGTCAG	CTGATGGAAT	GGACTAACAA	AAGACCTGTA	ATAAGAATGA	180
ATGGAGACAA	GTTCCGTCGC	CTTGTGAAAG	CCCCACCTAA	TCTCGAG		227

- (2) INFORMATION FOR SEQ ID NO:1194:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 258 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

GAATTCGGCC	TTCATGGCCT	AGTATATATA	TAAAATACTG	AGGATTTAGG	GCTGATGTAT	60
ATAAATAAAA	TACTGATAAC	TTTTTTCCTT	TCTTTTTCTT	TTTTTTTGA	GATAGTGTCA	120
TGCTCTGTTG	CCCAGGCTGG	AGTACAGTGG	CACCAAACCG	CTAACTGCAG	CCTTGCCCTC	180
CCAGGCTCAA	GCAATCCTCC	TGCCTCAGCA	CCCTCAATAA	CTGGGACCAC	AATTGCATGC	240
CACCAAACGC	ACCTCGAG					258

- (2) INFORMATION FOR SEQ ID NO:1195:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 314 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

GAATTCGGCC	TTCATGGCCT	AATGAATTCT	CATTTCCTGG	AGGCTGAAGA	TCTGTGCAGG	60
TGTCTGTGGC	CAATGTTAAG	CCTACGACTT	TAGATGAGCT	GGCATAAATC	TTGGGAGAGT	120
TTTCTTGTCT	GTGTTCCCTC	TGAATTTCTC	TGTGCTGTTA	GAGGCAGGGA	CAGAAGAGAA	180
CCAGCATGGC	AGTGCTGGGC	TCAGGGTGAT	GCCTGCCTGC	CAGCACAGCG	GTTCTTGTCC	240
CTGTCCCACA	TTGCTTCTTG	GAAGCCTTTT	TACAGCCTCA	ATCATCTTGC	TTTTTCTACC	300
GCAGCTATCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:1196:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 385 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

GAATTCGGCC TTCATGCGGG	GACTTCCACT	CTTTCTCGTT	TTCTCGGAGC	TCCGCCTCCA	60
GCTCCTCTAT CTTCCTCTTC	AGCTGCGTGT	TCTTCTCCTC	TCTGTGGATC	TCACGGCCTC	120
TTCCTCTGCT CCACGCTGGC	CACCGACTCC	TGCAGCGCCG	TGGGCAGCCG	GGCGTCGCTC	180
TCCCGCCGGG TCTGCAGCTC	CATCTCCCAC	CTCTTCCCGT	GGGCAGCTCT	CTGCGTCGAG	240
GCCGCCTTCA GCTTGTGGTT	CCCAGACTGC	AGGTGCGTGT	CAGCTGCAGC	GGCCTGAGAG	300
GCCTTTCATC GTCCGTCCCG	TTGACACTGG	ATGCCGGAGT	AGAAGATGGG	GCTCCATGCC	360
CGGATTCTCG GGATTATTAC	TCGAG				385

- (2) INFORMATION FOR SEQ ID NO:1197:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

CCATTTCAAA	AAAAAATCTT	AAAAATACGA	AGTTTTTCAT	TTTTCTTAAA	TTTTCATTGT	120
GACTACTTTA	GTAGACTTGC	CAGTAATAAG	CCAGTTACCG	CTTGAATCTC	AGTTTCTTTA	180
TCTGGAAAGT	GGTCATTATT	TATCTGCTGT	CCCCTTACCT	AGAGGGAATC	AAATGCGTTT	240
GATACAGGTT	CTCGAG				**	256

- (2) INFORMATION FOR SEQ ID NO:1198:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 446 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:

GAATTCGGCC TTC	ATGGCCT AGAGAGCCC	A TCTCCATCTG	CCAGCCTGGA	AGCAGCCATG	60
GCAAATGGGA TGT	GTCCCAC TGCCCCCGT	TGGTGCCACA	GTTGGGTTTA	TTCTCACAGC	120
TGCAAACCCA CGT	GCTGGGC TGCACAGCT	G CCTGAACGAA	GCTGGAGCGT	GCAGAACAAA	180
CTGCATGGAA TGT	CACGTGG GGTTTTCCA	C TCTCGCCCAC	AGTGAGTTGG	CAATGCCTGG	240
CCACGTGTGC TCT	GTGGTCT TTGAACTTG	A TCTGGGAGGA	CAGAANTTCA	AAAGGAAGAT	300
GAAGGCCCCA GCA	AGGGAGG TATTCCTGT	TTGAGCAGAA	GGTAAAGGTA	GAAGGTGCAG	360
ATTAGGTACT GGG	AATAGTC ATGGTTTGG	TTGAATGGAG	TAGAAGATTC	CAGAGGAAGA	420
GCAGTGGGGC ACA	GTGGCTC CTCGAG			*	446

- (2) INFORMATION FOR SEQ ID NO:1199:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 369 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:

GAATTCGCCT	TCATGGCCTA	AATTGTAGCT	AGGAAAATAA	TATATGTCTT	AGTTTAAGAA	60
CTCATACTCT	GGAATCAACT	CATTGCACTT	TCCTATATGT	TTGGCCATGG	GCAAAGCACA	120
TAACCTCTTA	ATCAATTGGC	TCGTCTCCAA	GGTGAGGATA	GTTATACTTA	ATCCTCTTTA	180
GGAGTGAGAA	TAAAAATTAA	ATATGTGTGT	AGCATAGTGT	CTACAATGTT	AGAGGTATTT	240
GAAAAGTGAT	AGTTTATTTT	TTGGAATTAT	TTAGCATTAT	TAAAAACAAG	GGGGAGCACA	300
CGGTGGCACG	TTTCTGGTCC	CAGCTACTTG	GGAAGCTGAG	GTAGTAGGAT	CGCTTGAGAT	360
CCGCTCGAG						369

- (2) INFORMATION FOR SEQ ID NO:1200:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 483 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:
- GAATTCGGCC TTCATGGCCT AGACAGGTTG CTAGCTACAT GGGTCTCTGA AGAAGAGTTT

120

180

TCCAGCAGAA GGAGCAACTA GTGCAAAGCC CCTGAGACAC AAGACCACGG AGGAAGCCAC TGTAGGAGCA CAAAAAAAAGT ACAGGAGGCTC CGTAGGTCCT AGTATGCACT TTGGCATTTA TGGCATTGAGA GATTCGGAGC AGAGGAAGGA TATAATCTGA CAAAAAAGTA CCTAAGATGA ACAAGGACAG CCTAAGATGA ACAAGGACAG CCTAAGATGA ACAAGGACAG CCTAAGATGA ATATTTGAA GAATTGATGA GAAGTGATGA GAATTGATGA GAATTGATGA GAATTGATGA GAATTGATGA GAATTGATGA GAATTGATGA GAATTGATGA ATATTTTGAA GAAGACGA CCTAAGATGA ATATTTTGAA GAAGACGA CCTAAGATGA ATATTTTGAA GAATTGATGA GAATTGATGAT ATATTTTGAA GAATTGAGA CCTAAGATGA ATATTTTGAA GAATTGATGAT ATATTTTGAA GAATTGATGAT ATATTTTGAA GAATTGATGAT ATATTTTGAA GAATTGATGATGATGATGATGATGATGATGATGATGATGA	GGAGATGAA TTTACTGATT ATTTTAGCA CACAGCAAG GACCAGGGT	CAGAGAGGTG GAGATGGCAG GGATCCCTTT ACCTGTAAGG AGTAGCAGTG	120 180 240 300 360 420 480 483
(2) INFORMATION FOR SEQ ID NO:1201:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12	201:		
ACCATATAAT TTGCCACTTG AAGTGTACAA ATTCAGTGAC TTATATTCATT AGGATATTCA GAGTTATATA TTCATCACCA CATATAACCTC AAAAAGAAAC CATGCACTCC TTAGCCATCA CTACCGCTCG AG	AGTCACTCT	TAGAACATTT	60 120 180 192
(2) INFORMATION FOR SEQ ID NO:1202:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12	202:		-
GAATTCGGCC TTCATGGCCT ACTTTAAACA TGTGGTCTTA COACTCTTAATT TTTATTTACA TAGATGTAAA TATACACATA TATAGGGTAA GAAAATTATA AAGTATGTG GTTTNTGTGA ACTCAGAAGAAA AGAGCAATAT TGGCACAAAA CAAATCATCT TAGAGTGCAGT GGCTCACGCC TGTAATCGCA TCACACTCGA G	PATTACTCTA ATATGAATTT PAATAAGGTA	AAGATAAACC GTACCTATAT	60 120 180 240 281
(2) INFORMATION FOR SEQ ID NO:1203:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	.203:		
GAATTCGGCC TTCATGGCCT AGTGATCTAC TTAGGTAGCT C	CCTGGAAAGC	AAAGGAGAGA	60

GAGCAAGACC TGTACAGACT TTGTTTATGA GGAAAGCTAT ATAAGGATTA TAAGAACTGA

TAAATATTTC TTTGTTTCCT TTTTGACAAA ATGGATTTTC TTCAGTTTCT TAAGCAGATG

TATTATTTCT GGGACGTTTT AGCCATGTAG TTTCTTTTTA TTCCTCTTTG ATACCCTGAA TAACTAGCCT TAGAAACACA AGTAAAGCTC CCAAAATTTC ATTTTCTACA TATTTTATTA CCAGATTGAA TTCTAGACCT GCCTCGAG	240 300 328
(2) INFORMATION FOR SEQ ID NO:1204:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:	
GAATTCGGCC TTCATGGCNT AGGTCCTAAA AAGAGTAAAA GGTGAAAACA CTAAGTGATA TTCNAAACAA AAGAAAAAGA TGAAAAATAA GAACCTTGGT TAAAGAGCAG TCGAAATAAG TAATGATTAT AGCTATGATT TATATAGCAC TTNTTACAAG AAGCCAGGCG CTGTTTTAAA CACTTGACAT ACTTATTTGC TCATTTCATA ATTGTAACAA CCCTATCAGA TAGGTACTAT TTTTATCCCA CTTTACAGAG GAGAAACTGA GGCACAGAAT TTTAAGTGAT TTGGCCGGGT GCTCGAG	60 120 180 240 300 307
(2) INFORMATION FOR SEQ ID NO:1205:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 425 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:	
GAATTCGGCC TTCATGGCCT AAAAAAAAT GTAGTCTAGA AAGAGACTAG GAATAGAACA CTGCTGACTT GTTCTTATAC CAAGAGCTGG AGGCATAAAC AGTTTTAATA AAAAAGAATA CTTTGTATCT TTTGATGTAA CTTCCCTTTA GAGATTCTGT TTCCCCTGTC TTAAATTGTC AAGACAAAAAAAAAAAA ATTTAAAATT GGTAGTTACT AATTTGAGTCA NGCTTCTTAA AAAAAAAAAA AATATAAAATT TCGCCAGCTC AGCTTTCATT TAATTAGTAT CAAAGAAATG ATATCTGTGG CAGTGAACAT TAGTAGCTTG TTCCAGGGTT TATTGTAGGT TTGTTCAAGT CAGTACTGCC CATCTTGGCA CTTAGGTTCT TGGAATACAG AGGTGGATAA GGTTTGCCCC TCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:1206:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 504 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

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GGTAGGTTGT GGATGTCTTT CTCTAGAGGG GTCCCACACC TGGAAAAGAG GACACCCAGC CGGGGGGATG AGGGAAGCTG GGCAAGGGAG AAAGTTGTTG AGTCACACTG GGGACCCCAG ATGTAGTGAG CTCAGCAAGA AAAGCCAGGT CCAGAGAGAG TCGCACAGAA TTCCTGACTC ACAGCGCCCC TCGGTCCACA GTGGAGAGGA GGAGGAGGAG GAGCAGAAGG AGGGGGAGGA GCTGCAGGAG GAGGAGGAT TGAAAGCGCT TTGGCCTTGT GTTATGTTTT GCTTCTTTC TGTGCCCCCC TCTAGGCCAT GAAG	240 300 360 420 480 504
(2) INFORMATION FOR SEQ ID NO:1207:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:	
GAAATTTTC AGTAACTCAG TGTCTTTAAC TAATAATTTA ATCATTCTAG TAAGAAAACA TGCTTTGTAT GATTTAGTC TTTACATTTA TTAATTTATG TAAATTAATA TGTGGGTTTT ATGATCACCC ACGACATTGT CCTAACTTGT CGACTGTTCT GTGTGCTCTT TTAAAGAAGG TAGTCTGTTG GCCGGGTGCG GTGGCTTACG CCTATAATCC CAGCACTTCG GACAGGCTCG AG	60 120 180 240 242
(2) INFORMATION FOR SEQ ID NO:1208:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:	
GTAGAATTGT ACAGTGCTTA TGAGTTATGC ATGTGTTCCT GGTCTTTGTT CTAGGATTTT TTTTTTTTTT TGATTGCTGC TCCAGTTGCC TTACTTACTT TGACATTGGA GTTGACCACA TGATGGTGTT CCACACTTCC CCTAGGCTCG AG	60 120 152
(2) INFORMATION FOR SEQ ID NO:1209:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:	
GAATTCGGCC TTCATGGCCT ACTACCCCTT TATCATTCAC TAACGTGAAT GTGGTGCTAA TTTTTCCAGT CCATATCTTT GAACTTTTG TAATATATGC ACATCAATAA GCAATCGAGT TTTATCTATT CTAATTGTTT TAATGTACAA CTTTATGGGT ACATGTGCAA TTTTGTTTCT TGCATGGTGG CCAAATCAGG GCTTTTAGAA CATCCAACAT GCGAATAATG TACATTGTAC CCATTAACTA ATTTCTCAAT ACTTCTGAGT CTTCCTTGTC TATGATTCCA CTCTCTACAT	60 120 180 240 300

CACATGTACA CCTCGAG

300 317

PCT/US98/06956

WO 98/45437

- (2) INFORMATION FOR SEQ ID NO:1210:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 282 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

GACAGATTTC	ATTACCTTGA	AGTTCACTGC	ACTGAACAAT	TCTCACTCTG	GATGTATTCC	60
TGCTCTAGGA	TGTGAATTTA	GACTTTTGTA	ATAGAGTGGG	CTTTGAGAAA	TAGCTTTTCT	120
GCTCATTTTA	GTTTCATGAT	GACTGCATGG	AATGTTTTGC	TTCACGCTTA	TGCATTGAGT	180
TTTATCAAGC	ATTAAGCAGT	TGGCCGAAAC	AGGTAATACT	TGAACATTCA	GTCCAAGAAA	240
		ACGTAGAATC				282

- (2) INFORMATION FOR SEQ ID NO:1211:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

GAATTCGGCC	TTCATGGCCT	AGTCAAACCC	TAGAGCAATG	CAGGCCTTGT	TACAGATTCA	60
CCACCCTTTA	CAGACATTAG	CAACGGAAGC	CCCGGGCCTC	ATCCCAGGGT	TTACTCCTGG	120
CCAGGGGGAA	mmacca acca	CTGGAGGCTC	TTCGGGAACT	AATGGATCTA	ACGCCACACC	180
		CAGCAGGAAC				240
						300
		CTGGAGTAAA				360
		TCAGTGCAAT				
AGCTCTAATA	GCAACAGGAG	GTGATATCAA	TGCAGCTATT	GAAAGGTTAC	TGGGCTCCCA	420
CCCATCATAG	CAGCATTTCT	GTATCTTGAA	AAAATGTAAT	TTATTTTTGA	TAACGGCTCG	480
	C.CC.III					482
AG						

- (2) INFORMATION FOR SEQ ID NO:1212:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 343 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNÂ
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

GAATTCGGCC	TTCATGGCCT	AGGGTGATAT	TTAACTCGTT	GCCAATGGCT	AAGCTCCAGA	60
CONTRACCORCO	CACACTTGGA	GGGATTCCCT	GCCACCATAA	ATCTCGAACT	TTTCTAGAGC	120
A CON CAMPOR	TTCCCACTTA	GGTAAGATCT	CATTATTCCA	GGTGAGCACA	GCGTTTCCAA	180
ACCACATIGI	11CCCAG11A	CTTTCTTCCA	COTOOTTOTT	CCTTCGCTGG	GCTTCTTTCA	240
TGCTTTCCTC	GACTCTGCAT	ACCACCATTT	GCTGCTTCTT	CCTTCCCTCC	TTCTCACCTT	300
					11CIGAGCI.	343
CTTCAGCTGG	TTTTGCTGGG	AGATTTGCTG	GTCTGTCCTC	GAG		242

- (2) INFORMATION FOR SEQ ID NO:1213:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

GAATTCGGCC	TTCATGGCCT	AGAGAAACTA	AAACTCAGAG	AAGTTAATTA	CTGAACTCAA	60
GATCCCAAAG	TGCTGGGATT	GCAGGCGTGA	GCCACCGCGC	CTGGCTGAAA	GAGCTTTTTT	120
AATGTATTAT	TTATTTGTGT	CAGGATAGAC	TCATTGATGC	${\tt GTGTTTTATT}$	CAGTGGGTTA	180
TAATTCTTTA	TTATGTATTC	TGATGTTGGT	GTTTTCCCAG	TTTTAGCCAA	TGGCATCCCC	240
TTCCATCTGG	ATCCTGTGTT	CTTTTGACAT	GGCTCCAATC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:1214:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCGGCC	TTCATGGCCT	AGAACCAGGC	CTTCCAGTAC	GAGTTTGGAG	CCATGTATGC	60
ATGGATGCTG	TGTGTCTTCA	CTGTCATCGT	GGCCTACAGC	ATCACTTGTC	CCATCATCGC	120
GCCATTTGGC	CTCATCTACA	TCCTGCTCAA	GCACATGGTG	GACCGGCACA	ACCTCTACTT	180
CGTCTACCTC	CCAGCCAAGC	TGGAGAAGGG	GATCCACTTT	GCCGCTGTGA	ACCAGGCCTT	240
GGCAGCCCCC	ATCCTGTGCC	TCTTCTGGCT	CTACTTCTTT	TCCTTCCTGC	GCCTGGGTAT	300
GAAGGCCCCC	GTCACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:1215:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 446 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

GAATTCGGCC	TTCATTTTGA	AAGATATTTT	TGTAAAAATC	TGTTTGTTTT	CTTTTAATAC	60
TTTCCAGTGT	TATCTGGGTT	TCTTAATTTC	TGACTTAAGG	TCTGTAATAA	TTTCTGCTTT	120
CATTCCTCTT	AATATATTGT	GTCTTTCTTT	GTCTACATTT	AAGATTTTAT	CTTTATCACG	180
TGTTTTGAAA	AGTTTTATTT	TGATGTGCTC	TTTATGTTTT	TCTTTATTTG	TAGTGCTTGG	240
ACCTTGTGGT	GCTTTTCTTA	TTTATAATTT	TCATCAAATT	TGGGGGGTTT	GACCATTATT	300
GCTTCAAAAA	TAATCTCTGT	TCTCTTTCTT	CACTTTCTCC	AGTTACATAC	TGTAGAGTAA	360
ATGATAGCTA	CCGAAGACAG	AGTGATCCGT	GATAAATATC	ATTAATGCCT	CTGAAGAGGA	420
GAATGACTCC	AGTGGAACCA	CTCGAG				446

(2) INFORMATION FOR SEQ ID NO:1216:

120 180 240

293

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:	
GGACTTTTTG GAGAAGCAGT ACTATTCATT AATTAAGTAT AGAGTGTCTT GTTAATCCTA AAAGAAAGAA AGCCTTAATG AGGATCATGA ATTTTTTTT TTTTTTTTT TTTTTGGATG GAGTTTCGCT CTTGTCGCCT AGGCTGGAGT GGGGTGCTAT CTCTGCTCAC CACAACCTCA GCTTCCTGGG TTCAAGCGAT TCTCCTGCCT CTGTCTCCCG AGTAGCTGGG ATTACAGACA TACGCCGCCA TGCCCAACTC GAG	60 120 180 240 263
(2) INFORMATION FOR SEQ ID NO:1217:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:	
GAATTCGGCC TTCATGGCCT AAACAACAAC AATAACAACA ACAAAAACAT GTATAACTGG GAAAAAACTG AAAGAGAATG CAGGATCATA AAAATATAGC AAACAAAGTG AGTGGGATTT AAAATTAGTG GAATAAGAAA TAATGGGTAA CAATGAAGAA CATAATTTAG GTAATAGTAT AGTATCTTGG GAGCCCTCCT GGAAGTATCT AGTTATGGAC AGTAACTGAC TGTAACTCAA TTCAGCATAC TTGATGGTTG TGGTAACCCT AGAAAATGAC TCCAGGAAAT AGGTGAGAAT CCAATCTATC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:1218:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 293 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:	
GAATTCGGCC TTCATGGCCT ACAGAGATAG GGTCCCATCC AGGTTCCTAA CTGGGTGGCA	61

GAATICGGCC	TICMIGGCCT	WCWGWING	GGICCCHICC	,10011001111	
CATGCATGGG	CTAGATCCAA	ATAGCATTGC	AAAGGCCTGG	AAAACAGAAC	TAGAATTGAA
ACCACCGCGG	AAGACTCATT	CGAACTCGTG	GGCTGAACTC	AACCAGGTCA	ATGCTTCAGA
AAAATACCAG	CATTCTCCAC	AGGACATAAA	CAAGATTGTC	TCATAACATA	CCATTCAAAA
TATTAGGATA	CAATCCAAAA	TTGCTCATCA	TAAGAAGACA	GGAAAAACTC	GAG

- (2) INFORMATION FOR SEQ ID NO:1219:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 265 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

GAATTCGGCC	TTCATGGCCT	ACGAGGATTG	GGGTAGGTAT	GNGCTTTNGG	CTCATGTTTG	60
TGATGATAAC	TGAAGTCTNT	TGTGGGTCCG	ACCTGTTGTA	GGGTGTGGGG	GAAAGTGAAG	120
GAAGAGAATG	AAGGTGAGTC	CCCGCCGTTG	CAAACCTTCA	CCAAACCACG	CGGCCCAGTT	180
TTCGTGAGTA	CCCCTGTGTC	CCAGAGAGGA	GGACCCAGCG	TCCTCGGCTC	TGCCGCAGGC	240
CTTCTTGGTC	TGGTGGGTAC	TCGAG				265

- (2) INFORMATION FOR SEQ ID NO:1220:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

GAATTCGGCC	TTCATGGCCT	AAGGAATTGA	AACCCAGTAC	TTTGCAGAAC	TTCTTATGAC		60
TTCTGGAGTG	GTCCTCTGTG	AAGGGGTCAA	ATGGTTGTCA	TTTCATAGCG	GTTACGACTT		120
TGGCTACTTA	ATCAAAATCC	TAACCAACTC	TAACTTGCCT	GAAGAAGAAC	TTGACTTCTT		180
TGAGATCCTT	CGATTGTTTT	TTCCTGTCAT	TTATGATGTG	AAGTACCTCA	TGAAGAGCTG	:	240
CAAAAATCTC	AAAGGGGGAT	CTCGAG				:	266

- (2) INFORMATION FOR SEQ ID NO:1221:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

GAATTCGGCC	TTCATGGCCT	AGCTCATTCT	GCTGGGGGTA	GAGATGAGGG	GAGGGAGTAA	60
GTTAAACCTT	GGACTAGCAA	GTAGAAGCCT	GGGGGGATGC	GTGTGCCTCA	GTTTCCTCCT	120
CCACAACTGA	ATATAGTGGC	TGAAAACTGG	GGAGATACTT	GATGGCGCGA	ATGTCCGTTT	180
		GCAGGAAGCA				240
GTGCTTTGCC	CCTCCTCCCC	TTCCCTTCTG	GAAGTCTTGG	GGCCTCAGTG	CŤTGCAACAG	300
CCACTCCTCG	AG					312

- (2) INFORMATION FOR SEQ ID NO:1222:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 512 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

GCGATTGAAT	TCTAGACCTG	CTGGCCTCAA	GTGAACCTCC	CGCCTCGGCC	TCCCAACGTG	60
CTGGTATTAC	GGGCATGAGT	CATTGTGCCC	AGTCACAGAA	TTCATTTTAT	TTGTGAAAAT	120
ACAGTGGTAC	AAGTAGGCCT	TTGTTAAATG	ACTAACCTGA	AACCTCTTGT	GAATGACAAA	180
CTCCTCTCTA	CTCCAAATAC	TGGCCCATCC	CTGCTTAAAT	ACTGCTCAAT	GAAGTTACTC	240
ATGCTAGTTC	TTGAGGGAGT	AACTCTAGAA	TGATTCCATC	TAGGAAGACA	TAAGATAAAA	300
TGGTAAGTAT	TCTAAGTTCT	ATAGGTAGTT	TAGTCATGCC	AAATTATAA	CCTCCACTCC	360
AAAAATAGTG	TGAGGTCATT	TCTGGCCAGA	GTGAAATAAA	AAATGTATAA	TGCCTGAACA	420
GTCTATTATT	CTGACAATGA	AAAAGATTAA	TGCAGTTCCC	TTTATCACTT	GCATGAGTAA	480
TATATAAAA	ATATATATTG	GCTGGGCTCG	AG			512

- (2) INFORMATION FOR SEQ ID NO:1223:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 447 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

GGGTGTTTCA TACAAAGAA	T ACAAGTAACT	GATGAATGAA	GGGGGCATCT	TGTGTCCCCA	60
CAATCCTGCT GTGCGCACA	CACAGGTGAG	CCGTTCTGCC	TAAGGGAACA	GCCCCGGCCC	120
CTCCCTCCGG CTCCTCCCC	A GCACCGTCTC	CTCCACCCAG	TGGCCTGGCC	GTGGATGCTG	180
CCTGTGGCCC AGCTTTGAG	A CACCGCCCTG	ACACGTGTCC	AGCCTTACGT	GGAAGGATTT	240
GTCTGTTTTG TGGCATCCT	A GTAGATGCCA	CGTTAGTAGA	TGCCATGTTA	GTAGAAGGGA	300
TGTGGGCATT TCTTTGTAA					360
CCAGTTTGGC TTTTGTTGT					420
TGGGGGGCTG CACCTGGGA					447

- (2) INFORMATION FOR SEQ ID NO:1224:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 235 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

GAATTCGGCC	TTCATGGCCT	ACTTTGTTTT	ATATAATAA	GTATGCCTGT	TAAATTAAAT	60
					CGATACAGTC	120
					GTGGATATTT	180
		CAACCAAGGA				235

- (2) INFORMATION FOR SEQ ID NO:1225:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 134 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

GCGATTGAAT TCTAGACCTG	CCTCGAGACT	GACGCCGCAC	CATGACCCTC	CTGCTGCTGC	60
CCCTTCTGCT GGCCTCTCTG	CTCGCGTCCT	GCTCCTGTAA	CAAAGCCAAC	AAGCACAAGC	120
CACCGCATCT CGAG					134

- (2) INFORMATION FOR SEQ ID NO:1226:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 556 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

GAATTCGGCC	TTCATGGCCT	ACACACATCT	GGTAAGCAGA	AGCACGGAAG	GCCTTTGTTT	60
CAGACAATCT	TTTAAATGAT	GTTTGTATAG	GGAACAGCTT	TGGAAGATAA	AGAATGTCTC	120
TCTCTCTTAT	GGTTTGAATG	TGTCTCCAAC	ACTTTATGTG	TTGAGACTTC	ATCCCCAGTG	180
TAACAGTATT	GGGAAGTGGA	GCCTTTAAGA	GCTAATTAGG	TCATGAGGAC	AGCTCGCTCA	240
TGAGTTGACT	AAAGCTGATA	ATGTGGGAAC	GTGTTGGTTA	TCACAGGAGT	GAGTTCCTGA	300
TAAAAAGAAT	GAGTTTGGCC	AGATTGTCTC	TGTCTGTCTC	ATCTGCCTGC	TTCCACCTTC	360
TGTACTTCCA	CCTGGAATGA	CCCTCACCGG	ATGCTGGTGC	CATGCTCTTG	GACTTCCCAG	420
CATCCAGAAC	TTCTGTTTTT	ATAAATTACC	CAGTCTATGG	CATTCTGTTA	TAGCAGCAGA	480
AAATGGACAG	AGACACCCTC	AAATTAAAGG	ACAGTCTTGC	TGACTATGAA	TTAGAAAATA	540
TCTGGGTTAG	CTCGAG					556

- (2) INFORMATION FOR SEQ ID NO:1227:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 175 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

GAATTCGGCC	TTCATGGCCT	ACCTGCCTCG	AAATACTACC	GTATGGCCCA	CCATAATTAC	60
CCCCATACTC	CTTACACTAT	TCCTCATCAC	CCAACTAAAA	ATATTAAACA	CAAACTACCA	120
CCTACTTCCC	TCACCAAAGC	CCATAAAAAT	AAAAAATTAT	AACAAACCAC	TCGAG	175

- (2) INFORMATION FOR SEQ ID NO:1228:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 220 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCGGCC TTCATGGCCT ACTGTTTCCT TGCCCTTTTC ACCGTCTGGT GGTTCCCTGC

AGCCCTTGGC TTGTGGCCCT CTCATCCATC TTCCGAGCCT AGCACTCCAG TCTCTGCTTC TGTCATCACA TCGCCTTCTC TTGAGAAAGA TCCCAGGCTG GTATTTAAAT TGCCTGTTGG CAGGAACTTT GCCTGTCTTC CCCTACCCCC ACAGCTCGAG	120 180 220
(2) INFORMATION FOR SEQ ID NO:1229:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 526 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:	
GAATTCGGCC TTCATGGCCT AAGTCTCTTG ACATCTCAAT TTACCCCAGA ACATCTCTAT TTAATTATTC CCTGAGGAGG GGAAGTTGGG TATGGCGGTT GGAGGTGGC ACATCCCTAA AGGCTTCGCC ACTTTCTAAT GTTTGCTGTG GCTACAATGG TCAGACCCAC AGGCAAAAAAA GTCGAAGTCC CTGGAGTCCC TGACCCCTCT TCCTCTCTAT AACCATTGGA AACTGTCCAA ACCAACTCCA GTAGTTCTGG GCTGAGAAAAAA CAATCTCTCAA GGGTGGAGCA ATGTGGGCTA GGACCCACGG CAGGATCAAA ATCTCTGAAG AGTGGGGGTA CCCTCTGCCC TGGGAAGAAG GAAGCAGGAT TTATTATAAC ATTTAGCTCA CTGTCCAATC	60 120 180 240 300 360 420 480 526
(2) INFORMATION FOR SEQ ID NO:1230:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:	
GAATTCGGCC TTCATGGCCT ACCATTGGGC TATGACCTGA GGAGAATCAA GGTAGCTTTC TCAGGCCTCG TGGACATCGT GGATATAAGG AATGCTCTCG TAGGAGGGTA CAAGAACCCC AGCATGATTC CAATAGAGAA GGCCCAGGGG CCCATCCTGC TCATNGTTGG TCAGGATGAC CATAACTGGA GAAGTGAGTT GTATGCCCAA ACAGTCTCTG AACGGTTACA GGCCCATGGA AAGGAAAAAC CCCAGATCAT CTGTTACCCT GGGACTGGC ATTACATCGA GCCTCCTTAC TTCCCCCTCG AG	60 120 180 240 300 312
(2) INFORMATION FOR SEQ ID NO:1231:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

60 120

GAATTCGGCC TTCATGGCCT AGCTTTATCC ACTCTGGAAT CCTGGAGGAG CCGCTACAAC

CAAGTTGTAA AAGAAAAGGG AGACCTTGAG NTGGAAATTA TTGTCCTGAA TGACCGGGTA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

ACAGATCTTG TAAACCAACA ACAAACCCTG GAGGAGAAGA TGCGGGAAGA CCGGGATAGC 180 CTGGTGGAGA GACTACACCG TCAGACTGCT GAGTATTCCG CATTCAAGCT GGAGAATGAG 240 AGGCTGAAGG CCAGCTTTGC TCCAATGGAG GACAAACTCA ACCAGGCACA CCTCGAG 297 (2) INFORMATION FOR SEQ ID NO:1232: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232: GAATTCGGCC TTCATGGCCT ACGCAGCTCT ACCTGCTCCA GGGGCACCTG GACCTGTGTG AGCAGCACTG TGCCATCCTC CTGCAGACTG AGCAGAACCA TGAGACCGCT TCTGTGAAGT 120 GGAAAACTTG AAGACATTCC TGCCTTCTTT GAATTGGCCA AGAAGGTGTC TAGCCGGGTG 180 CCTTTGGAAC CAGGGTTCAA TTACTGCAGA GGTATCTACT GCTGGCACAT AGGGCAGCCC 240 AACGAAGCCT TAAAGTTCCT GAACAAGGCA CGCAAGGACA GCACTTGGGG CCAGAGCGCC 300 ATCTACCACA TGGTGCAGAT CTGTCTGAAT CCAGACAACG AGGTTATGGT GCGGCTCGAG 360 (2) INFORMATION FOR SEQ ID NO:1233: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 423 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233: GAATTCGGCC TTCATGGCCT AGAAGGACTG AAATGATGTT ATACTAAGGG CTACTGAACT 60 120 AGGTGGTCTG AAGCCAAGGC CTCGCGGAGC TTCTTTGTGT GTCACCTTGC TTCCACGTTT 180 CAGTTCTTGT TTTGTTTCTA CTGCTTTAGT TTTTTTTAAA GTTCTCCAGT GTCCCCAAGA 240 GGTATTAGAA TCTTGCTGTA CCCAAGCAAG ACGTTAATTT TTCTTTTAAC TGTTTTGGGG 300 360 AGGGAGGGAG TGATAGCTTA ACTGCTGAAG CCAGGCGGGG GTCTGCTGGA GGATTCCAAC AGAGAGTATT TCCTCCACTG TACAATGTCA CAGACTATCT CTATCATCAT TGCTTTGTGG 420 423 (2) INFORMATION FOR SEQ ID NO:1234: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 475 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

GAATTCGGCC	TTCATGGCCT	AGCATGTAAA	ACTTCAGTCC	TGAACATTTA	TAGGGTTTTA	60
					CCGTCATGGA	
					TCACGGCTGG	
ATGTGGCCCA	CAGGACACCA	CAGCCGIGAG	AACCGGAGAG	CAGACTICCC	*CACOGC100	

GCTGAGCAAA CACAAGCACG					GGGCTTACAG CAGTGTAATC	240 300
ATATAAGGCC	ATCCTGACAT	TGTTTCTGTG	TTTCAAAATT	TGGATTTTTA	TTTACATTAG	360
AACTACATTG	CTCCTAGTAG	AACATTACCT	TTAGGGGACT	AATTTTCCAT	GGAGAACTAT	420
TTCAGCATAT	TGCATGCTGC	TCAGACCCCA	AGTCAGATAT	GCCCACAAGC	TCGAG	475

- (2) INFORMATION FOR SEQ ID NO:1235:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

GTTTTGAGCC	TAGTAGCACT	ACCTTCCAAG	TGAGTCACAA	CAAATTTGAT	CCTATTTGGT	60
ATGTTTTTGT	CCACTGTTAT	GATTNATCAT	GTATCTTACA	AGAGCCACTC	AAGCAAGACT	120
CTGCTTCTAT	GTATGGTGAG	GCCTNGTTGT	TCTAGGCTAG	AATAAACTCT	TTGTATGCCT	180
CATTGAATAT	GCCAGGTAAA	ATTTATGCAG	TCAAGAATGA	ATTATTTTC	TGACTAAAGT	. 240
GTGTAGCAGT	AGTTCAAAAT	TGTGCCCTTG	TTTTAACAGT	TTCTGTCNAC	ACCTTCTCGA	300
G						301

- (2) INFORMATION FOR SEQ ID NO:1236:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 346 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

GAATTCGGCC	TTCATGGCCT	AAGAGAAGAT	AACATTTACA	AGTAAACAGT	AAGTGCAATT	60
GTATTTTAAT	TTCTTGGTCT	CCGAAAACTC	AGCTGTGACT	GCTTTCCATT	AACAGTTCCA	120
GCTCTATGTG	TTTCCTCTAA	CGCTAAAGGC	ACAGCCCCCG	GGAATCTACT	GCTTCCTAAG	180
AGTCTCCATG	GAGTCTATTT	TACAACCTCC	TTTCCCTCCA	TGCTTCCGCG	GAGGAGTCTA	240
TACTATCTCT	ATATACACAT	TTTAAACATT	ATTCTTCATT	TGAAATTCCT	TCAATAAAAA	300
CACAGTCACC	ATTCTTCATC	TTCTTGGGAA	ATGGCCTGCT	CTCGAG		346
	GTATTTTAAT GCTCTATGTG AGTCTCCATG TACTATCTCT	GTATTTTAAT TTCTTGGTCT GCTCTATGTG TTTCCTCTAA AGTCTCCATG GAGTCTATTT TACTATCTCT ATATACACAT	GTATTTTAAT TTCTTGGTCT CCGAAAACTC GCTCTATGTG TTTCCTCTAA CGCTAAAGGC AGTCTCCATG GAGTCTATTT TACAACCTCC TACTATCTCT ATATACACAT TTTAAACATT	GTATTTTAAT TTCTTGGTCT CCGAAAACTC AGCTGTGACT GCTCTATGTG TTTCCTCTAA CGCTAAAGGC ACAGCCCCCG AGTCTCCATG GAGTCTATTT TACAACCTCC TTTCCCTCCA TACTATCTCT ATATACACAT TTTAAACATT ATTCTTCATT	GTATTTTAAT TTCTTGGTCT CCGAAAACTC AGCTGTGACT GCTTTCCATT GCTCTATGTG TTTCCTCTAA CGCTAAAGGC ACAGCCCCCG GGAATCTACT AGTCTCCATG GAGTCTATTT TACAACCTCC TTTCCCTCCA TGCTTCCGCG	GAATTCGGCC TCATGGCCT AAGAGAAGAT AACATTTACA AGTAAACAGT AAGTGCAATT GTATTTTAAT TCTTGGTCT CCGAAAACTC AGCTGTGACT GCTTTCCATT AACAGTCCA GCTCTATGTG TTTCCTCTAA CGCTAAAGC AAGCCCCCG GGAATCTACT GCTTCCTAAG AGTCTCCATG GAGTCTATTT TACAACCTC TTTCCCTCCA TGCTTCCGCG GAGGAGTCTA TACTATCTCT ATATACACAT TTTAAACATT ATTCTTCATT TGCATCCGC GAGGAGTCTA CACAGTCACC ATTCTTCATC TCCTTGGGAA ATGGCCTGCT CTCGAG

- (2) INFORMATION FOR SEQ ID NO:1237:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

GAATTCGGCC TTCATGGCCT	ACTCACTATG	TTGCTCAGGC	GGATGTGGAA	CTCCTGGGCT	60
CAAGCGATTC TCCTGCCTTC	GCCCCCAAAG	TGCTGGGATT	ACAGGTGTGA	GTCATGGCAG	120
CCACGGCTCC AGAGCTCGGG	TTCTTAATCT	GGTCTGTGGA	TGGCCCCTGG	GGGCGGTCCC	180

ATGAGCCCCT	CACAATTGGA	CACAGTTTTG	CAAAGGGGTA	AAAGGACAAG	AATCGGTAGC	240
TGTGACTGTG	GATGAGCCTC	TGAGCTTCAC	TTTCCCTCCC	TGAAAGGGGG	TGACAGTGGC	300
ACCTCCCTGG	AGGTTTTCGT	GGAGGGGAGG	AAACACATGT	AAAATACTTC	ACCCC	355

- (2) INFORMATION FOR SEQ ID NO:1238:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 560 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

GAATTCGGCC	AAAGAGGCCT	ACTAGACCTG	ATCACCACGT	TCAAAAGTTG	GCTTTCTCCA	60
TTTTAAGTTC	TTCCTTAAAG	CCTCTTTAAG	CAAAGTCCCT	GAAATGATAC	AGTAGAAAAA	120
TCACACAGAC	TTATTTAAAA	TGAATTCTAT	CACTATTCCT	GAGATCTCGC	CTGCCCCACT	180
GAGGACATTT	TGTTTTCGCA	AAGTGCTTTG	AAATGTGATA	AAGGATCTTA	AAGAATATTT	240
GTAAAATTAT	GCCCAAAGAA	GACATTCTTT	GAGGTTAACT	TGCAGTGTCT	AAAAGTCAAG	300
AATGAGGAAG	GAAAGGAAAA	TAACAGATTC	ACTTTAAAAT	GGACCACGCT	AATTGGGCAG	360
TGAAACATCC	TTGTGTCACA	CCATTTACCG	TAGCAGACCA	GAAGAGGGAA	AAGGCTTGAT	420
TTTTCTCTCA	TAGATACCAC	AGTTCACTCT	CAAAAACATT	CCTAAAATGG	ATTGATATTT	480
CTCTGATAGA	GCACCTGTTT	TGCTACTGAC	AGTGTTAAGT	TCCATACTAA	TCAGCTCATC	540
TAGCCTAACG	ACAACTCGAG					560

- (2) INFORMATION FOR SEQ ID NO:1239:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 569 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGNC AAAGAGGCCT	AAGGAGAANG	AGGCTCAGAA	GGAGACGATT	AAGGATCTTC	60
CCAAGATGAA CCAGGAGCAG	TTCATTGAGC	TGTGCAAGAC	GCTTTACAAC	ATGTTCAGTG	120
ANGACCCCAT GGAGCAGGAC	CTGTACCACG	CCATCGCCAC	CGTGGCCAGC	CTCCTGCTCC	180
GCATCGGAGA GGTGGGGAAG	AAGTTCTCAG	CCCGCACAGG	CAGGAAGCCC	AGGGACTGTG	240
CCACTGAGGA GGACGAGCCA	CCAGCACCCG	AACTGCATCA	GGACGCAGCC	AGGGAGCTTC	300
AGCCCCCAGC TGCAGGAGAC	CCCCAAGCCA	AAGCAGGCGG	AGACACACAC	CTCGGAACAG	360
CCCCACAGGA GAGCCAGGTG	GTGGTGGAGG	GGGGCAGCGG	CGAGGGACAG	GGCTCACCCT	420
CCCAGCTGCT GTCTGACGAT	GAAACCAAAG	ACGACATGTC	CATGTCCTCC	TACTCGGTGG	480
TCAGCACGGG CTCCCTGCAA	TGTGAAGACC	TTGCAGACGA	CACGGTGCTG	GTGGGCGGGG	540
AGGCCTGCAG CCCCACAGCG	CGACTCGAG				569

- (2) INFORMATION FOR SEQ ID NO:1240:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 405 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

GAATTCGGCC AAAGAGGCCT	AGAGACCAGC	CTGGCCAATA	CGGTGAAACC	CTGTCGCTAC	60
TAAAAATACA AAAATTAGCC					120
GGGTGAGGCA GGAGAATCAC					180
ACCGCTTCCC TCCAGCCTGG	ATGACAGAGT	GAGACTCCGT	CTCAAAAAAA	CAAAAAAAAA	240
GTTACTTCAA TAATGTACTT	TTTTTTTCA	AATTACAGAT	AATCTATAAG	GAATTAATCT	300
TGAAATTAAT TCCAGGTTTA	ATTGTTAATG	AAATTTCACA	AGCCTAATTT	AACACTTGTC	360
TGGATAACTC ATTTTGATAC	TGAGTAAATA	GTCACCGGTC	TCGAG		405

(2) INFORMATION FOR SEQ ID NO:1241:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 542 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

GAATTCGGCC AAAGAGGCCT	AGGGCTTTTG	TGAATAAATT	TTAAAAGAGA	CTACTGCCTG	60
TCCTTAAATT CCTTTTTCTT	AAAAATATTT	AAGAACTATT	AAAAATGATT	GACAAATTTT	120
GAGTTAAAAA ATTGTTAAAA	CATTCTCTAT	ATTTAATTTC	AATTTTATAA	TAGATTACAG	180
GAAGATGCTT ATGAAACAAA	TACATTTGTT	TCAGTACATG	TCTTTAAATG	ATAGACTTAT	240
AAGTATGTAA ACAACTATAT	AATAAAAGGT	TTCCAAACGC	TGCCTGTAAG	AAATCAGGCA	300
AATTTTACCA TAAGCAATAA	ACCATTCCAA	GCCTTCCAGA	CAGTCTCCAT	AGCCGCACCA	360
GCATGGCAAT AAGCTTTAAC	CAAACGAAAA	CAAACAAACA	AAAGCACTTC	GCAATTTGTT	420
GCTGCAAAAC AGGGAGAGAA	AAGAGTGTAC	AAACTTGATG	GAATCACAAC	AGTCAATATA	480
ATTTAAGGGA CAATAAAGTC	AATAAGGTTG	ATGGTGTTTA	TTGTTTAAAA	AGTTAGGCCT	540
CT					542

(2) INFORMATION FOR SEQ ID NO:1242:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

GAATTCGGCC	AAAGAGGCCT	ACTGATACAA	TTGTTGACTT	TTCTTTTACT	ATGTGTAAGA	60
AATACCCCAA	ACATGAAAAG	ATTGTTTTGA	TCATATGCAT	GTATGTAGAA	TATTTTTGCA	120
GAGCAGAAAG	ATTATGTTAG	AAGTGTGATT	TTTATTTTCA	GAAGTCATAT	ACATGTAAGC	180
TACAATTTTG	AGTGCTTTAT	AAACACTTAA	GATATATATA	TAAATTTTAA	TTTCATAGCA	240
ACTTGTAAAA	AATAAAATAC	TTGTTGAAAA	GCCTTTTTCA	ACATATCCCT	AAGCTAAGGG	300
AAGAGGAAGG	AATAACAACT	CAGTGAAAAG	ATGGTCTCCA	GTTTCTGAAT	GAAAAAGCTA	360
CAACCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:1243:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 374 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

CAATTCCCCC	AAAGAGGCCT	AGCCTCATCA	CGGGCAGGGC	TCTGGCCCAT	AGTGGCTGGA	60
				AGACATTGGC		120
0						180
				ATACACTTCC		240
				AGTAGTACCA		
				GGGAAATCTT		300
CCCCCTTAAA	AAAAAACACA	TCTGCCCCGA	ACACTTTCCC	ACTGTTATTC	TTTCCTCATA	360
CCCCAACGCT	CGAG					374

- (2) INFORMATION FOR SEQ ID NO:1244:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 468 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

GAATTCGGCC AAAGAGGCCT ACACACCAAA CTGATTATCC ACCAGACAC	CAGCGTCTTA	60
GAAGATATTG TGGAGAATAT CTCGGGGGAG TCCACCAAGT CTCGACAGA	TTGCTACCAG	120
TCGCTGCAGG AATCTGTTCA GGTCTCCCTG GCCCTCTTTC CAGCTTTTAY		180
GATGTGACTG ATGAGATGCT GAGCTTCTTC CTCACTCTGT TTCGAGGCC		240
ATGGGTGTGC CTTTCACTGA GCAAATCATA CAGACTTTCC TCAACATGT		300
CAGTTAGCCG AGAGCATCCT CCACGAGGGC AGCACAGGCT GCCGGGTGG		360
CTGAAGATCC TGCAGGTGGT GGTCCAGGAG CCAGGCCAGG		420
AGCATCATCG CCCTGTGCAT GGAGCAAGTG TATCCCATTT CGCTCGAG		468

- (2) INFORMATION FOR SEQ ID NO:1245:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 444 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

GAATTCGGCC	AAAGAGGCCT	AAGCTTATGG	GGAGGACACA	TATTTACTCA	AACATCCTGG	60
				CTTGCATGTG		120
TCTGATAACA	TTGATGAAAA	ATATCATTCA	CTTCTTCTTG	GTGCAGAAGG	CATAGACCGG	180
				TGGTGGCGTC		240
CAGCCGACTG	AAGGCTCTTG	GACACTTGGA	ACATTTGTAG	GGTTTCTCTC	CGGAGTGGAT	300
GCGCTGGTGC	TCCTTCAGGC	TCCCCCTGTA	GGTGAAAACT	TTCTTGCAGT	CTTTACATTC	360
GAAGGGCTTC	TCCCCCTGTG	TGGCTTCTCT	TGTGACACTT	CAAGTAGGAC	TTCTGGGTGA	420
ACTGCTTAGG	CCTCTTTGGC	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:1246:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

GAATTCGGCC	AAAGAGGCCT	AGTATTTTGT	ACTAGTTTTT	TAATAATTAT	AAGTCTTACA	60
			TTTTTCTCCC			120
ATGTATTGTG	ATAACTGCTA	TAATTTTGCT	TTTATTGATT	TTTTTTGCTT	TATATCTGCT	180
ACAATTTGGT	TCCTCCAAAT	CCCATGTTGA	AATCTGATCC	CCAGTGTTGC	TGGGGGATCT	240
AATAGCAGGT	GTTTGGGTCA	TGGGAACAGG	TCCCTCATGA	ATGAATTAAT	GCCCTCACTG	300
GGAGGAGGGG	ATAAGTAAGC	TCTCACTCAT	TTAGTTCCCA	AGACAGCTGG	TTGTTTAAAA	360
GAGCCTAGTG	CCACTTCTCT	CTTGCTTCCT	TTCTTGCCGT	GTGATCTCTG	CACATGCCAG	420
CTCCCCTCGA	G					431

- (2) INFORMATION FOR SEQ ID NO:1247:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 389 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

GAATTCGGCC	AAAGAGGCCT	ATTTTTTTT	TTTTTTTTT	TTTTTTTTTT	TCNGGGTGTA	60
			TGAAAGTTTA			120
AMECHANIA	TTGTACATAT	TCTTCCCACA	TATCCTGCCT	TGTATTAGGA	AATGACATTG	180
			AAAATATTTA			240
			TGTTTTTTT			300
						360
			ATAAGCAACT	AAGATCCCCC	GWICHCHUMI	389
TTCCAAAGAA	CTAGGCCTCT	TTGGCCGAA				303

- (2) INFORMATION FOR SEQ ID NO:1248:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 380 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

GAATTCGGCC	AAAGAGGCCT	AAAGGAAGGC	CACTTCTCAA	CTGGCAGAAC	TTCTGAAGTT	60 120
TAGAATTGGA	ATTACTTCCT	TACTAGTGTC	TTTTGGCTTA	AATTTTGTCT	TTTGAAGTTG	
AATGCTTAAT	CCCGGGAAAG	AGGAACAGGA	GTGCCAGACT	CCTGGTCTTT	CCAGTTTAGA	180
AAAGGCTCTG	TGCCAAGGAG	GGACCACAGG	AGCTGGGACC	TGCCTGCCCC	TGTCTTTTCC	240
			GACAGTTTCA			300
			TATATACAGC			360
	TTTGGCCGAA					380

(2) INFORMATION FOR SEQ ID NO:1249:

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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 386 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

GAATTCGGCC AAAGAGGCCT	GTTTGGTTTG	TGACTAGACT	TAAAAATACT	AAAATAAGCC	60
AAATAGATGC TAACAATACT	AATTTGCACA	CAAGATTTGA	AAAAAGTACT	TCAAGTTTTA	120
TCTCTTATCC CTAGAGAAAG	TAAATAAAA	GTGGCTCTTG	CAAAAATAAA	TGAAAACAAA	180
ACCACCAACA AAAACTAATC	ATATAAGATA	CTGTTTTTCT	TTTTGAATAC	TTCAATTGGT	240
CCTATATTAG GATAAGGTTT	TGATAGCAAG	GACTTCCTAG	CTTCTTCCTT	TATCTTCCAT	300
TCTCTAGTCA CTTCCGTGTT	TTTATCAAAC	AAGGCTACGT	GTAGGCTTTC	CTACAAAGTC	360
AGATTGAATT CTACCACCCT	CTCGAG				386

- (2) INFORMATION FOR SEQ ID NO:1250:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 428 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: gDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

GAATTCGGCC	AAAGAGGCCT	AACCATGTCT	GACCAGATCA	TTGGGAGAAT	TGATGATATG	60
AGTAGTCGCA	TTGATGATCT	GGAAAAGAAT	ATCGCGGACC	TCATGACACA	GGCTGGGGTG	120
GAAGAACTGG	AAAGTGAAAA	CAAGATACCT	GCCACGCAAA	AGAGTTGAAG	GTTGCTAATA	180
ATTTATACTG	GAATCTGGCA	TTTTTCCAAG	CCAAGAGAAG	ATCGAATGGC	TTTTTGCAGC	240
TAACTACTAT	GTGTAGACAG	GTTTTATATT	ATAAAGTATG	CATTCTTATC	ACCTAGTATA	300
TAGTTAGTTT	GTAGAGTGAT	TTCCCCCCAG	TTTCTTGAAC	ATGGTATCTT	CACATCTTGG	360
ACCTTGGTCA	GTTGTGCTAT	TCATTATTAA	ACACTAAAAC	TTTGGCGGTT	TAGGCCTCTT	420
TGGCCGAA						428

- (2) INFORMATION FOR SEQ ID NO:1251:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 264 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCGGCC	AAAGAGGCCT	AAGAAAAGTA	GTATGAATGA	GTTTTTCTAC	ATATTAACTA	60
CAATTTATGG	TAATTTGTGA	AATGTTTTTC	CATTTTTAAA	TGTAAGAGTC	TCTATCTCCA	120
CTCACAAAGC	AACAGGCACT	GCTAGGGGTC	TTAGGCTAAC	ATCTGCCACC	CCACCAGTCT	180
GCATGGCCCA	TAAACAGGTG	CAGAGGACCA	GAGTTCACCT	GTCAGCAGCA	CCGCAGAATC	240
CAACTCTAGG	CCTCTTTGGC	CGAA				264

(2) INFORMATION FOR SEQ ID NO:1252:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 436 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCGGCC	AAAGAGGCCT	ACTTTTTTT	TAATTTTCCA	CTTTCTTCTT	AACTTTACTT	. 60
CTCTTTTTGT	CCCCCCCAT	CTTACAGAAG	TTGAGGCCAA	GGGAGAATGG	TAGGCACAGA	120
AGAAACATGG	CAAACTGCTC	TGTGCTTTCA	AACCAAAGTG	TTCCCCCCAA	CCCCAAATTT	180
GTCTAAGCAC	TGGCCAGTCT	GTTGTGGGCA	TTGTTTTCTA	CAACCAAATC	TGGGTTTTTT	240
TCTTCTTTCT	TTAAACATAG	AGGTACCACC	ACAAGGGATG	CCCTACTCTC	TCGCAGCTCT	300
TGAAAGCATC	TGTTTGAGGG	AAAGGTCTCT	GGGCAAGCAA	${\tt GTGGTTATTT}$	GGATTGCTTG	360
CTTCCCTTTT	TCCACCTGGG	ACATTGCAAT	CATAAAATAA	CAGTAAATTC	CAAACCTCTA	420
GGCCTCTTTG	GCCGAA					436

- (2) INFORMATION FOR SEQ ID NO:1253:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 399 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GAATTCGGCC .	AAAGAGGCCT	AGGGTAGATC	ACTTGATATC	AGGAGTCGAG	GCGGGAAGAT	60
CACTTGACGT						120
AAAATACAAA						180
CTAAGGCAGG						240
GCCATTGCAC						300
AAATTCCTTT						360
ATGGGATCAT						399

- (2) INFORMATION FOR SEQ ID NO:1254:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 444 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

GAATTCGGCC	AAAGAGGCCT	ACCCGGTACT	TACTTCTCAA	TCCTAAAGAG	AGAAAACAGG	60
			AGGAAGAACG			120
			ATGGAAGAAG			180
			AAAGATTCAA			240
			TTTGTGGCCG			300
			AGATGGTTTT			360
TOGGAGTGTG	AATGGGAAAG	GTCTATGCTG	GTGTTATGTT	TCTAACCTTA	TTCATTGGCA	420
	GACGTACACT					444

(2) INFORMATION FOR SEQ ID NO:1255:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

GAATTCGGCC	TTCATGGCCT	AAGAAGGACT	ACCCTGCACT	GCTTTCCTTG	GATGAGAATG	60
AACTCGAAGA	GCAGTTTGTG	AAAGGACACG	GTCCAGGGGG	CCAGGCAACC	AACAAAACCA	120
GCAACTGCGT	GGTGNTGAAG	CACATCCCCT	CAGGCATCGT	TGTAAAGTGC	CATCAGACAA	180
GATCAGTTGA	TCAGAACAGA	AAGCTAGCTC	GGAAAATCCT	ACAAGAGAAA	GTAGATGTTT	240
TCTACAATGG	TGAAAACAGT	CCTGTTCACA	AAGACAAACT	CGAG		284

- (2) INFORMATION FOR SEQ ID NO:1256:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 691 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

GAATTCGGCC	TTCATGGCCT	AGTGGGAGTT	TGCTAATGTG	AAACCTAATG	ATGTCTGAAA	60	
ATGGTCCTGA	TGGGTATTAA	TAGCCATCTG	GAAAAATTTT	ACATCTTCAC	AAATAATCCC	. 120	
AATAATTTAT	ATTGTGAAGA	TATTATCCTG	ATAGTCCTTC	TTTTCCTATA	TTCTTGTCGG	180	
CTGTAGGATG	AGAGCAGTAT	GAAGCAAACA	GAAGACATTT	TGAAATTAAT	CACAAAATTC	240	
CCATTGCTTT	GAAGCCTGCT	ATTATTATAC	TAAGCCTTCT	TATAGCTTTA	AAAATCAAAC	300	
AATGCCAAAC	AGTATATCTA	ACATTTTTAA	TTTCCTTTGA	GCCAAACCAA	TTTGGTTTAA	360	
ATTTCTCTGC	CTCCGTGAAG	ACAAGCTGGG	CTGGGGAGGA	CGGTGTCTAG	GAGGGATGAC	420	
CCCACTCAGC	TCCAGGCAGT	GTTCTGCCGA	GACCCCAAGA	ACTCGGGGTG	TCAGAGGGCA	480	
AAGGAACTAC	CTGCCTTTCA	CGGCTGCTGA	CTTCTCAGGG	CTGCAAGCAG	CACAGAATGT	540	
TATCCTTACG	TCCTGAGCCG	GTTTAAGTCT	GTGGAAAAGG	AAGCACGGGA	GAAATCCACG	600	
TAACCTTTGC	TTTCTTTTTA	AGGGAAGCGG	TTCCGCCGTG	AACTTGGAAC	CCTCAGCTCC	660	
GGGTGTTCTC	GGCAGAAGGG	CAGCTCTCGA	G			691	

- (2) INFORMATION FOR SEQ ID NO:1257:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 383 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

GAATTCGGCC	TTCATGGCCT	AAGCTGATCC	ACGATCAGAG	TGCTCCCAGC	TGCCCCAGCA	60
GCTCCCCGTC	CCCAGGGGAG	GAGCCTGAGG	GGGAAGGGGA	GACAGATCCG	GAGAAGGTGC	120
ATCTCACCTG	GACCAAGGAC	AAGTCGGTGG	CAGAGAAGAA	TAAGGGCCCC	AGTCCTGTCT	180
CCTCTGAGGG	CATCAAGGAC	TTCTTCAGCA	TGAAGCCGGA	GTGGGAGAAC	TTGAACCAGT	240

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CCAACGTGCG GCGCATGCAC ACGGCCGTGC GGCTGAACGA GGTCATCGTG AAGAAATCCC GGGACGCCAA GCTTGTTTTG CTCAACATGC CTGGGCCTCC CCGCAACCGC AATGGTGATG AAAACTACAT GGAGTTTCTC GAG	300 360 383
(2) INFORMATION FOR SEQ ID NO:1258;	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 418 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:	
GAATTCTGAG GGACTAACTA CGACCATGAG ATTGGCAGTG ATTTGCTTTT GCCTATTTGG CATTGCCTCC TCCCTCCCGG TGAAAGTGAC TGATTCTGC AGCTCAGAGG AGAAGAAGCT TTACAGCCTG CACCCAGATC CTATAGCCAC ATGGCTGGTG CCTGACCCAT CTCAGAAGCA GAATCTCCTT GCGCCACAGA ATGCTGTGTC CTCTGAAGAA AAGGATGACT TTAAGCAAGA AACTCTTCCA AGCAATTCCA ATGAAAGCCA TGACCACATG GACGACGATG ATGACGATGA TGATGACGAT GAGAGACCATG CAGAGAACGA GGATTCTGTG GACTCGGATG AATCTGACGA ATCTCACCAT TCCGATGAGT CTGATGAGAC CTTCACTGCT AGTACACAAG CAGTCGAG	60 120 180 240 300 360 418
(2) INFORMATION FOR SEQ ID NO:1259:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 189 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:	
AAAAATTAAA TAATGCTTGA CTTTTTTTT TTTTTTCTC TTTTTGAGGC AGGTTCTTGC TCTGTCACCC AGGCTGGACT GCAACAGCAT GATCTTGGCT CACCTCCGCC TCCCAGGCTC TGGCAATCCT CCCACCTCAG CCTTCAGAGT GGCAGAGACT ACAGGCTCAT ACCACCGCAC CCACTCGAG	60 120 180 189
(2) INFORMATION FOR SEQ ID NO:1260:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:	
GCGATTGAAT TCTAGCCTTT CCTCCGTTCA AGTAAATTTA GAAATTTCCT AAGTTTTCTT TATAACAGGT AGCCTAAATC TATATCATAC TTTTAAAATA AAAATCTAGG TGCAAATTTG TTCTTATGGT TAAGGTTAAC ATGTACACTT CACAAACATT GAGACTTTTG TTTTGTTTTC TGGGACAAGG TCTTGTTCTG TCTCCCAGCT GGAGTGGATA CAAGCATGGC TTGCTTCAGC CTCAACCTCC CGGACTCAAG CGATCCCCC CCCTCGAG	60 120 180 240 278

- (2) INFORMATION FOR SEQ ID NO:1261:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 265 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

GAATTCGGCC	TTCATGGCCT	ACTCACTGGA	TGCTGGGGGA	GGGCCCCTCA	GGTGAGCAGC	60
CCACCACTGA	CTTCAGCGTT	GCTGGCTCGG	TTATCAGACT	CTCATCCAAC	ACAAGCTCAC	120
AGGGAAAGCC	GTTCCTTGCT	CCTTGTGGAG	GGAGCTACCG	TCATTGCCCT	GAGACCACCA	180
GCCAAGAAAG	TAGGTATGTC	CAGGTAGGGA	ATTCAGAGGG	ACCCAGTGCA	TCCAATTATA	240
CAATTATACC	CAGAAAGTCC	TCGAG				265

- (2) INFORMATION FOR SEQ ID NO:1262:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 426 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

GGTCAGTATT	GAAGGTTGTT	TTCTGAGCCA	TTGTATGAAG	CTGCTGTTTT	GGCGTCCCTA	60
ATGCAGGGTG	AGATGGTAGT	GTGATTCTTG	TTGTGACATC	TCGTGACTGG	GCAGGACGCT	120
		GGAGGATGCT				180
		GTCGTAGTGA				240
		GGGATGGCAT				300
		TGTACTGCTG				360
					GCAGCTGCAC	420
	CAGGACIGIG	GIIACIIIAG	AACTOONCAT			426
CTCGAG						

- (2) INFORMATION FOR SEQ ID NO:1263:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 398 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GAATTCGGCC	TTCATGGCCT	AGGCCGGTGT	TTATGCACGA	TGGCGTTGAA	AGCTAGTCCA	60
TCTCTCCAGC	TGGTGGTGAA	GTTGTGTACA	TTGACGTTGG	GATAACCTGC	AGTCTTCATC	120
TGGCACCACA	CAAGCAGGGC	ATCCTTGGCT	GACTTCTTCT	CCTTGTTGTC	TTCTGTCTCC	180
		GAATCGAAGG				240
					TTTCTGCTCC	300
		GTCCACGTTC				360
				GGATCCGCAT	0000000111	398
GTAGGCTTTG	GCAGTATCTC	TCCCGAGAGC	ACCTCGAG			370

(2) INFORMATION FOR SEQ ID NO:1264:

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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) ·STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

GAATTCGGCC TTCATGGCCT AAAAAAAGCT GTTAAGAAAA TATGTTTTAA AAATTTGCCC	60
AACAGGAAGG AGAAAATTAG AATCTAATAG CAAACTTGTG TCAAAGCAGG GGAGACCACA	120
TGATCTTCCT CTTTGAAAAT CTGTCCTGGG TGATGACCAT ATGCTCTCTA AACAGGTTTT	180
CTGTGTTTTA GGGAAAGAAG CTCAGAAAGG ACCCCTGCTC TTTGATGACC TCCCTCCGGC	240
CAGCAGTAAC CTCGAG	256

- (2) INFORMATION FOR SEQ ID NO:1265:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 249 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

GAATTCGGCC	TTCATGGCCT	ACAGAGTCTA	ATTAGCCATA	TTTATATGAT	AATAATAAAC	60
ATTTTGGCTA	CAGTCCTACC	TAGATTTTTT	TTTTTTAGAT	GGAGTCTTGC	TCTGTCGCCC	120
AGGCTAGAGT	GCAGTGGTGC	GATCTTGGCT	CACTGCAACT	TCTGCCTCCC	AGGTTCAAGC	180
AACTCTGTTG	CCTCAGCCTC	CCAAGTAGCT	GGGATTACAA	GCGCACATGA	CCACGCCTGG	240
CAGCTCGAG						249

- (2) INFORMATION FOR SEQ ID NO:1266:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 265 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

GAATTCGGCC	TTCATGGCCT	AGGTTATATA	GCAGTGATGC	TTTCATAGTA	TTTTTCTTGA	60
ATAAGGTCCC	CAAAACCTTA	TTAAGTTCCT	GGTAGGCATG	GAGCATTGAA	GATGGCAGAC	120
ATGGTGCAGT	CTCTCAAGGA	GTTTACGCTC	TAGTGGAGAA	AACAATCAGA	CAGCCTTAAA	180
ATACATGTAT	GGCTACTATA	ATAAATACTG	TGAAGCAGGA	GTGCACCACG	AAACCTGGAG	240
TCCTCTCCAT	CCTCCCCTTC	TCGAG				265

- (2) INFORMATION FOR SEQ ID NO:1267:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 293 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

GAATTCGGCC	TTCATGGCCT	ACTAGACCTG	CCTCGAGATT	AGGGGGGTTA	GACTCAGAAT		60
TCTGTCCAAA	CTCCTGGACG	ACCTCTTGAA	ATTAAGTCAG	GGATTTTATG	TACTGGGTTA		120
ATTTCGTAAC	CTCTGGGTAT	AATATTAGGT	TTGCATGTAG	AAAGGGTCTC	CAGTATAGGA		180
CTTCAAAGAA	ACTAAGCCAT	AGACGTAATT	TAAGGGCTGT	TCTGATCTGA	AGAAGTGCCA	:	240
${\tt TGGGTAGAAG}$	TTTTAGCCAT	GGTAAAGAGG	${\tt CTTCCTGGCA}$	${\tt TCATTTGCTC}$	GAG	:	293

- (2) INFORMATION FOR SEQ ID NO:1268:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 501 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

GAATTCGGCC	TCATGGCCTA	CTGGTCCAAG	CTGATTACCC	TCATAGTGTC	CATCATTGAG	60
GAAGACAAGA	ATTCCTACAC	TCCCTGCCTC	AACCAGTTTC	CCCAGGAGCT	GAATGTGGGT	120
AAAATCAGCG	CTGAAGTGAT	GTGGAATCTG	TTTGCCCAAG	ACATGAAGTA	CGCCATGGAG	180
GAGCACGACA	AGCATCGTCT	ATGCAAGAGT	GCCGACTACA	TGAACCTCCA	CTTCAAGGTG	240
AAATGGCTCT	ACAATGAGTA	TGTGACGGAA	CTTCCCGCCT	TCAAGGACCG	CGTGCCTGAG	300
TACCCTGCAT	GGTTTGAACC	CTTCGTCATC	CAGTGGCTGG	ATGAGAATGA	GGAGGTGTCC	360
CGGGATTTCC	TGCACGGTGC	CCTGGAGCGA	GACAAGAAGG	ATGGGTTCCA	GCAGACCTCA	420
GAGCATGCCC	TATTCTCCTG	CTCCGTGGTG	GATGTCTTCT	CCCAACTCAA	CCAGAGCTTT	480
GAAATCATCA	AGAAACTCGA	G				501

- (2) INFORMATION FOR SEQ ID NO:1269:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 330 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCGGCC	TTCATGGCCT	AGGCCCCTGC	TCCACCTGGG	GGGACTGGGA	GTGTGAGTGT	60
GCATGGCATG	TGTGTGGCAC	AGATGGCTGG	GACGGGTGAC	AGTGTGAGTG	CATGTGTGCA	120
TGCATGTGTG	TATGTGTGTG	TGTGTGTGGC	ATGCGCTGAC	AAATGTGTCC	TTGATCCACA	180
CTGCTCCTGG	CAGAGTGAGT	AACCCAAAGG	CCCCTTCGGC	CTCCTTGTAG	CTGTTTTCTT	240
TCCTTTTGTT	GTTGGTTTTA	AAATACATTC	ACACACAAAT	ACAAATTGAC	AGGTCAAAAT	300
CCATGAAATG	AGATCCCCCA	GCGGCTCGAG				330

- (2) INFORMATION FOR SEQ ID NO:1270:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 502 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCGGCC	TTCATGGCCT	AAAAAAAAA	TACTGATTCA	CTTTTGCAAT	TTTTCAGATA	60
CTACTTGATG	TGACACCTCC	CCTAGGCTTG	CTGTGGGTCT	CTTGGAAGAT	AGAGCTATAT	120
TAACTCCTTG	ACTTAAAGGG	CAGCAGACTA	TATAAGGTCT	CTTTACAGAC	AGAGTAGGGA	180
GAATAATGAA	AAACTTTTTG	ATTTCTAGAG	AGAAGAGAGA	AGACATAGCA	ATGGAACTGT	240
TCTTAGCTTT	GTTTGCTACA	ACTCTTCAAA	GTTTAATTTT	AGATTCAGTG	CATTTATTCA	300
TAGAGCATGA	AACATATAAT	CATGCCTTTT	ACTAATTGCG	GATACTTAAA	TTATATATTA	360
TTTGACCTAC	TGTGTTATGG	TCAATTTGAA	AAAGAATGGT	TTGATTATAT	ATTATTGTCT	420
GTAGATTCCC	TGTACTATTC	TAGGATCATA	TGACATATTA	TCATTACTAA	ATATAGCACT	480
AATTATTGAT	GCTCCGCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:1271:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCGGCC	TTCATGGCCT	ACCCCTGACT	ATTCAGTAGG	AGAAGAAATC	AAAAATCCAT	60
TCTTTTCTCC	TTCTCTCCCT	CCAACAGTGG	CCAGGGGAAG	GGGAAGTGAG	GGCAGGGGCA	120
AAAAGATTTG	GGAATTTTTA	TTTATTTATT	TATTGTGACT	TTTCATTTTT	TTGGTATTTG	180
GCTTTACTGG	AATAGGAGGG	CCCCTGCCCA	CTGTGCCCCG	TTTATCCCTT	ATTCCCCAAA	240
CCCTGCTCTC	CCCAACACCT	ACTCACTTAA	GCACTTGTCC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:1272:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 405 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

GAATTCTAGA	CCTGCCTCCA	ATTTGAAGAT	TTATTTCTCT	CTTTGGATAT	AGAACAAAAT	60
AACTTTATGT	ACATTTTATT	TCACTTTATT	TTACTATTGG	GTTGGTGCAA	AACAAATTGC	120
AGTTTTCCCA	TGAAAAGTAA	TGGCAAAAAC	TGCAATTACT	TTCGCACCAG	CCCAATATTT	180
TATTTTGAGA	CAGAGTCGCA	CTCTGTCACC	AAGGCTGGAG	TGCAGTGGTG	TCATCCCAAC	240
TCACTACAGC	CTCTGCCTCC	TGGGTTGGAG	AGATTCTTGT	GCGTCAGCTT	CATGTGTAAC	300
TGGAATTACA	GGTGCACGCC	ACCACGCCCA	GCTAATTTTT	GTATTTTTTG	TAGAGATGGG	360
GTTTCGCCAT	GTTGCCCTGG	CTGTTCTCAA	ACTCCTGACC	TCGAG		405

- (2) INFORMATION FOR SEQ ID NO:1273:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 412 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

GCGATTGAAT	TCTAGACCTG	GCTCGAGGCA	GGTCTAGAAT	TCAATCGGCT	TCCTGGCAGT	60
GCCCTCTCCC	AGATGAGACC	TGATCTCTTT	${\tt TTTGTTTTT}$	GTTTTTTGTT	TTGAGACAGA	120
GTTTTGCTCT	TCTTGCCCAG	GCTGCAGTGA	GTTGAGATCG	CACCACTGCA	CTCCAGCCTG	180
GGTGACAGAG	TGAGACCCCA	TCTCAAAAAA	ААААААААА	ATCTGGCCTT	ATGGACTGTG	240
TACTACACTC	TAGTGGGGGT	AAGAGGCAAT	${\tt GGGTAAATAG}$	GTAAGTAGAT	TATTGGATGT	300
ATTAGAAGGG	GCATGGGGAA	TGTGGGGTCA	AGGTTATAGT	TTTAAATAGG	GTGGTCAGGG	360
AAAGCTTTCT	GAGAAGGTGA	CATTTGAAAC	AAATACTTGA	AGGAGTCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:1274:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

GAATTCGGCC	TTCATGGCCT	AGCTATTTT	AAACAATATC	TGAGATTATT	CATTCAACTA	60
AAACTTATTA	AGCATTTAAT	ATCTGTCTGG	CATTCTTCAG	GCACCAAGGA	TATTTCGTTG	120
AACAAAACAA	AATCTTTGTC	ACTATGGAGT	TTACGTTTTG	TGGTGGCATT	GGAGTGAAGA	180
GCTAGGGAAT	AAAAAAACAA	GTCAATATGT	AGTATGCCAC	TTGGTGGTAA	GTCATTTGGA	240
GAATGATGTA	GTAGGGAAAG	AGGAAAAGGG	TGTAGGCATC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:1275:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

GAATTCGGCC	TTCATGGCCT	ACTCCACACA	TTCATCTCCC	AAAGGACTCC	TTGAATATTT	60
GCCCCAAAAC	ATCAGCTCCC	AGAAAACACC	CCTCCCAGTC	ACACACACAC	CCAAATTCTC	120
CGATGTATTT	TCATTTTTTT	TCTCCTCTTC	TCTTCTCTTT	TTCCTTCCTT	CCTTCTCTCT	180
TTTCTCTCTT	TCCATCCCTC	CCTTCCTTCC	TCCCTCCCTT	CCTTCCTCCC	TCCCTTCCTT	240
CCTCCCTCCC	TCCTTTCCTT	CCTCCCCCCA	CCCACTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:1276:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 220 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

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WO 98/45437

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

GAATTCGGCC	TTCATGGCCT	ACGAGTGGTG	CGATTTTTTT	TTCTTAGCTT	ATCAGCTATG	60
GTTAGTGTTA	GCGTATTTTA	TGTGCGGCCC	AAGACAATTC	TTCCTCTTCC	AGTGTGGCCC	120
AGGAAAGCCA	AAAGATTGGA	CACCCCTGGT	AGAGGCAGAA	ACTCACTGGG	TTAGTTCCAC	180
AGCATCTGAT	CAAAGATATG	AGGCCAAAGA	GCCTCTCGAG			220

- (2) INFORMATION FOR SEQ ID NO:1277:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 246 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

GAATTCGGCC	TTCATGGCCT	ACGAGCTGAG	ATTGCGCCAC	TGCACTCCAG	CCTAGGCAAT	60
AGAGTAAGAC	TCCATTTCAA	ААААААААА	AAATGTTGAT	CAAAAGAAGC	CAGATGACAG	120
AGTACTCACT	GTGTGAGTCC	ATTTATTTGA	AATTCTAGAA	CAAAAAATAA	ATATCCATTG	180
ATAGAAATGG	GAACAGTGTT	GGCCTATGAA	GAATGGAAAT	TGACTGGAAG	GAGGCCTCTG	240
CTCGAG		•				246

- (2) INFORMATION FOR SEQ ID NO:1278:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 499 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

GAATTCGGCC TTCATGGCC	T AGCTGGGCGT	GATGGCGGGC	GCCTGTAGTC	CCAGCCACTC	60
GGGAGGCTGA GGCAGGAGA					120
TTGCGCCACT GCACTCCCC					180
GAAAGAAAA AAGAAAATI	A ACAAAGAAAA	AATTAAGATT	TTTGAAATAA	AAACAAATAT	240
TAAAAATTAT TGAAATATA					300
TATGAATTCA ATTATTTT	TTGCTTATGG	AAAATAGATC	CACTGCTCTA	AGATGCTACT	360
AATCATGCTC AGAGGATTO					420
ATTAAATAGA GCATTCCAC					480
AAAATAGCTT TCGTTCGAG					499

- (2) INFORMATION FOR SEQ ID NO:1279:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 317 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

			AAGCAGTGTC			60
CCAAGAAATA	GTTTGGTACT	ACCGACATTG	TCTAATCCAT	GTCACATCCT	CATACAATTT	120
			AAGAAAGGAT			180
AACTGAAAAA	AAATAAGAAA	GAAAGAGTTG	GATGAAAATG	TGAAAGCCCA	AGTTTAGATG	240
TGCATTAAGT	ATTAAATAGC	ACAGTATCTT	CTTCATGGAG	CCTTTTTTCC	TCCCCCATCC	300
CCTGCAGCTA	CCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:1280:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 407 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

GAATTCGGCC	TTCATGGCCT	ACTTCCTTTC	ATTTTGAAGC	AACAGTTTAT	AAACAGGAAA	60
GTCTACTGGT	TTCATAGAAT	CTGTCAGATT	TGCTTATTTG	CTACTGGTTT	CACGCGCGTG	120
GACTATATTC	CAGTGTTTCT	AGTCAAAGAC	CTTTATCCTC	AAATCATGAG	ATTAGAGTAA	180
AACAACTGCT	GTAAGGTTGA	GCATTTCATG	ACCAATGACT	ATGAAGGCAC	ATTCACCAAA	240
CACAGGCACT	TTAAGGGCAT	CCTTGATTAA	TTTGCTAATT	GCTATTTTTT	GTTGGTATGT	300
GAATTCCTGC	TAGGAGGCCG	AGGCTAGTAG	GCAATGAAAA	AGACAGAACA	ATGGTAAAAT	360
GCAGCCCCGG	TCCTCTACAA	ATTGACAGTA	TAATTTAGGG	GCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1281:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 281 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

GAATTCGGCC	TTCATGGCCT	AAGATTGACA	AAGAAATAGA	GCTTCACAGA	ATTCTTCATC	60
ATAAGCATGT	AGTGCAGTTT	TACCACTACT	TCGAGGACAA	AGAAAACATT	TACATTCTCT	120
TGGAATACTG	CAGTAGAAGG	TCAATGGCTC	ATATTTTGAA	AGCAAGAAAG	GTGTTGACAG	180
AGCCAGAAGT	TCGATACTAC	CTCAGGCAGA	TTGTGTCTGG	ACTGAAATAC	CTTCATGAAC	240
AAGAAATCTT	GCACAGAGAT	CTCAAACTAG	GGAACCTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:1282:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 250 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

GAATTCGGCC TTCATGGCCT AGTAGTTTAT TATATAGAAA TTATTTGTCC TTGTCTTAGT TGTGCCCTTT GACTCAGCAA TTCCCCTTCT ATAAAATTTT CCCAAGCAGA TGATTATGGA TATATGCACC AATTTGGAAA CAGGGATGTT TATTGTTTAT AGTAGCACTC AACTGAAAAC AACATAGTTG TCTTCAGGAG CGGGGACTGA TTAAATTATG ACATGAAGCA GAATAATGCA AAATCTCGAG	60 120 180 240 250
(2) INFORMATION FOR SEQ ID NO:1283:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:	
GAATTCGGCC TTCATGGCCT AGCTGAAGAA GGCCTTCACA GAGCTTCAAG CCAAAGTTAT TGACACTCAA CAGAAGGTGA AGCTCGCAGA CATACAGATT GAACAGCTAA ACAGAACGAA AAAGCATGCA CATCTTACAG ATACAGAGAT CATGACTTTG GTAGATGAGA CTAACATGTA TGAAGGTGTA GGAAGAATGT TTATTCTTCA GTCCAAGGAA GCAATTCACA GTCAGCTGTT AGAGAAGCAG TCTCGAG	60 120 180 240 257
(2) INFORMATION FOR SEQ ID NO:1284:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 434 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:	
GAATTCGGCC TTCATGGCCT AAAGACTAGC ATATTTATCT TTGACTTGAT TAATCAGACC TAATTTGCAT TCGCAAATGA GACTGATAAA AATGGATTTA CCTTTTAACC TTTAGAGGAG GAAAGGTATT TCTCTGCAAG ATTTCTGGGG CTATCGTTTC TTAACCGATA AGAAGCCACT CCTTTATCAA TAAAGATGAA AATCCGCAAT TTGCATTAGT GAATGGGACT GATTATTATA TAGTTAATTA GCATCTGGAA ATGAGGATTA TCTTAATTAC AAAGCACAAT TTCCCTAATA GCTACAAAAC TGTAAGTTG ATCCATGTG AAATTGGTAA CATTATTATG TAATTAGTGA TAACATTAAT AGTGTAGAAT ATTTAGATGT AATTTGCATA TGCAAATGTG ATTTACCTGA GCCAAAAACT CGAG	60 120 180 240 300 360 420 434
(2) INFORMATION FOR SEQ ID NO:1285:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

AGCAATATTT ATTTTAGACA GACTTCTGCG TTATGACCCG GCTGCTGGGC TACGTGGACC 60 CCCTGGATCC CAGCTTTGTG GCTGCCGTCA TCACCATCAC CTTCAATCCG CTCTACTGGA 120

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ATGTGGTTGC ACGATGGGAA CACAAGACCC GCAAGCTGAG CAGGGCCTTC GGATCCCCCT ACCTGGCCTG CTACTCTCTA AGCATCACCA TCCTGCTCCT GAACTTCCTG CGCTCGCACT GCTTCACGCA GGCCATGCTG AGCCAGCCCA GGATGGAGAG CCTGGACACC CCCGCACTCG AG	180 240 300 302
(2) INFORMATION FOR SEQ ID NO:1286:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:	
GAATTCGGCC TCATGGCCT AATCTTTCT AATTGTCTT AATGCTTAT AATTTTCTAT GCAGAGGTCT TGTAGATCTC TTTCCAAGAT ATTTGATGTT TGTTTGTTTG TTTGTTTTGT	60 120 180 240 245
(2) INFORMATION FOR SEQ ID NO:1287:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:	
GAATTCGGCC TTCATGGCCT AATTTTTTT CTCCTCTTC TTCTAGTACA TATTGATAGG TATAACATAA TTAAGGTTTA AAAAAAATTA GACATAGTTA TTCAGATTTA GGACCAGTAA GGATAGAACT TTCTCTTATT TATGAAAAAA AATGCTAATA ATTTTGGGGC AGTTTTTCC TTTAATTATT TTTTCAATT TCAAGTTTAA TTTTATTTTA	60 120 180 232
(2) INFORMATION FOR SEQ ID NO:1288:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 298 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:	
GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGCCT TCATGGCCTA AGAAGATCAC TTGAATCTGA GAGGTAGAGG CTGCAGTGAG CGAAGATCAC ACCACTGGAC TCCAGCCTGG GCAACAGAGT GAGACCCTGT CTCAAAAACA AAGAAGAGCA CTAGCTTCTC TATCAAGTAA GTGTAGGGTT TTAAAAAAACA CAAATGGACT TTGGTAGACC AAAACAAAAG CCCACGAGTA TGGAAGTTTC CCTTGAAGTT GGAAATTCAA TTTCCCCCTT ACCCCCCAA CCCTCGAG	60 120 180 240 298

(i) SEOUENC	CHARACTERISTICS
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- (A) LENGTH: 227 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCCA	TACCCATGGT	CAGCCTCTTC	CTCGTGTTCA	60
CGGCCTTCGT	CATCAGCAAC	ATCGGCCACA	TCCGCCCGCA	GAGGACCATT	CTGGCTTTTG	120
TCTCTGGCAT	CTTCTTCATA	CTATCGGGCC	TCTCCTTGGT	GGTGGGCTTG	GTTCTTTACA	180
TCTCCAGCAT	CAACGACGAG	GTCATGAACA	GGCCCAAACA	GCTCGAG		227

- (2) INFORMATION FOR SEQ ID NO:1290:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 264 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

GAATTCGGCC	TTCATGGCCT	AGACAACTCT	TAGCTAAATG	TGGTTTGGTT	TTGAGCTGGA	60
AGAGAGTACA	AGGTGCTTCC	GGAAAGCTTC	AAGCCTTCGG	ATTCTGTGAG	TACAAGGAGC	120
CAGAATCTAC	CCTCCGTGCA	CTCAGATTAT	TACATGACCT	GCAAATTGGA	GAGAAAAAGC	180
TACTCGTTAA	AGTTGATGCA	AAGACAAAGG	CACAGCTGGA	TGAATGGAAA	GCAAAGAAGA	240
AAGCTTCTAA	TGGGAATACT	CGAG				264

- (2) INFORMATION FOR SEQ ID NO:1291:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 323 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

GAATTCGGCC	TTCATGGCCT	AGGTGCTCTC	AAGGATCAGT	ACTGGGTAAC	AATAATCAAA	60
CTTTGAATTT	AAACATGCAT	CTATTATTTG	TGTTTTTTGT	TTTTGTTTTT	GAGGCAAAGT	120
CTCACTCTGT	CACCCAGGCT	GGAGTGAAGC	AGCCCAATCT	TGGCTTACTG	CAACCTCCAC	180
CCCCTGGGTT	CAAGCAATTC	TCCTGCCTCA	GTCTACCTAG	TGGCTGGGAT	TACAGGCGCC	240
CGCCACCACG	CCCAGGTAAT	TTTTGTGTTT	TAGTAGAGAT	GGGGTTTCAC	CATGTTGGCC	300
AGGCTGGTCT	AGAATTCAAT	CGG				323

- (2) INFORMATION FOR SEQ ID NO:1292:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 289 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GCTCGAGAAA	CTTCTGCTGC	ACGTGCGTCT	TCCCCTCCAC	CTTCACCCCT	TGTGGCTCAC	60
TCACGCACCC	ACTCTCCAGT	CCACCCCTCC	TCAGAGACCC	TGTCCACTCA	TCCATCTCTC	120
TCCCATTGCG	CTTCCTCTTC	ACTCCGTTCC	TTCTGCCTCC	CACCATATGC	AAATCTTCTC	180
CATCCTTAAA	AGCCTGATTG	CCTCCTCTGG	ATTTTTCCAC	ACTCTTGGGG	AACTTCCTGT	240
GACTCCCTGC	CCTTCACCAC	CAGCCTTTCC	CAAAGAGAAA	TCCCTCTCA		289

- (2) INFORMATION FOR SEQ ID NO:1293:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 421 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCGGCC	TTCATGGCCT	AGTTGAAATC	TTTAGGAATG	AACTTCTGAG	GGCCAAAAAA	60
TGTGACTGAC	GGGAACAATT	CTTAAACTGA	TTAACTAGCT	GTAATATAGT	TTTGTGAATT	120
TATTGCACTG	ATGTTGTACC	TTGTGGTATA	TCTGTCCCTA	TTAAATAAGT	GTTGTTTTCT	180
CCTCTTTAAT	ATTGCTGTGA	ACAGTGGTGC	CCATTGTAGC	ATATGTTTGA	TTTTTTTTTA	240
TTATTTCATA	AGAAAACTAC	GTTAATTTTA	CCTTACTTTC	ATTGTAAATA	AGCCTGTCTT	300
CCTATCTGGA	TTTTTTGTGT	GCATACATAT	TCTACTGATT	AACTACTTTT	GCAGTTTTAA	360
TCCTGTATTA	TTTCTTCTAC	TTTGTTTTGT	GTAAAAGGGG	AAAAAATAAA	AAAAGCTCGA	420
G						421

- (2) INFORMATION FOR SEQ ID NO:1294:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 408 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCGGCC	TTCATGGCCT	ACAGGTGTAT	GTCACCATGC	CTGGCTAATT	TTGTTTTTCT	60
			TCTCACTATG			120
CAAACTCCTG	GGCTCCATCT	TCCCGCTTCG	GCTTCCTGAA	GTGCTGGGAT	TACAATAGGC	180
			CAGCCCAATA			240
CAGCTATCAT	TGAGTTTCAG	AAGTTAGACT	GTTAAAAGTT	TCAGTAAAGA	GCTTTAACCA	300
GTTTATTGTG	GCAATACTGT	GTACACAATT	ATTTTTTGTA	AAAGGAAGGA	GATTTCTGTC	360
TTAAATAGCT	TTAATAAAGT	TTCAGTTTCA	TATACAGGAA	ACCTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:1295:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 259 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCGGCC	TTCATGGCCT	ACAGGCACTC	CAGTTATAAT	TATGTGCCTT	TCTTCCATTT	60
CTACCACTTT	CTCTGATACT	TCTCACTTCT	TTCTCTGGTA	CTTCTCACTT	CTTTCTCTGG	120
TATCATTTTC	ATTCTTCATC	ATTGTTTTAG	TGCCTTTACT	TCAATTCCTT	CATTATTTGA	180
ATTTTTCTTT	TTATCATCTT	GTGATTCAGT	TTTTATTTAT	TTTTTGATAG	TATTCTCCTT	240
TTCTTCCATT	CCACTCGAG					259

- (2) INFORMATION FOR SEQ ID NO:1296:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

GAATTCGGCC	TTCATGGCCT	AGTGGAGAGT	GCTATCATTA	ACACCTGAAC	TCTGGGCCAG	60
CTTAAGTGTA	TATTCTGTAA	AAAATTTGAA	ATCCCCCAAA	TGTCACATGC	TATGACAGTC	120
ACTTTCTTTA	GTACTTTGTA	ATCATACAAA	ATGGTGTATG	GGCTAAATAT	TGCAGCACCT	180
ATGTCGTCAT	CCTCCATGTT	GCTTATTGAT	CATGGAATGT	TAATTTAGCA	ATAATTTTCT	240
CTGTGTGTGC	GCTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:1297:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 327 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC	TTCATGCAAG	TAGGGTATGT	AGGCTTCAGT	TGGTTCTACT	TTCAGAGAGT	60
TAAGATGGAA	TGAGGCAGCT	CATGGCACTA	CAGGTCAGTT	GCCTTCTCTC	CAAAATGTTC	120
ACTCATGCAT	GTGGGCACTC	ATTGTATTTG	AATAACAGCA	ACAGTGCCTC	CCTCAGTTTG	180
GAACCTCTAG	TCCACTTGCT	CACTCATGGT	CCCTGCCTTA	ACCCCAGTCA	AGTTCAAAGC	240
CATAGGCATC	ATTTGTCCGA	CTGACATATT	AGGGCATCTA	CCAGTCAAAG	GGTGATTGTT	300
GTAGATGACC	TTTGGCCCGT	TCTCGAG				327

- (2) INFORMATION FOR SEQ ID NO:1298:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

- (2) INFORMATION FOR SEQ ID NO:1299:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCGGCC	TTCATGGCCT	AATGAATTTA	GTATTATTTC	TATCATTTCA	ATTGCAAATT	60
					AATTGTGTTC	1.20
					TTAGAGATTT	180
					AACCTCATTG	240
			GCACACACCC			285
AACTITTAAA	AMMOULMONE	T 002 T 27 T 1 1 1 1 1 1 1	~~~~~~~			

- (2) INFORMATION FOR SEQ ID NO:1300:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC TTCATGGCCT AGGGCCAATG GCCAGGATCT CTGGGGACTA GAAGGGTGGA	60
TTCCTGAACC TGGGTAACAA CGAGACAAAC TCTAGCAATC TGAGCAAGGG AAGGGTCATC	120
AAAGTCCCAA AATCTAGCCC ACTAGCTGCC TAGCCAGGTA AACCAAGGCT TAGGGAGTTT	180
AGACCCTTTC ACATAAAGAA GCTTAATAAA AAGTGTTGGG TGAAGAGATA AACACATGAA	240
GGGGTTGGCT AAAGTCAAAA GAAGATCCGA GGCAGGTCTA GAATTCAATC GG	292

- (2) INFORMATION FOR SEQ ID NO:1301:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 548 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

GAATTCGGCC	TTCATGGCCT	ACTCCTCATT	TGCCACCACC	AGGCCAGTTT	GTCCCTTTCC	60
					CTCTTAGGAG	120
					ACATTACCTC	180
					TCCTTTGGAG	240
					ATCCCAGCAG	300

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GTGCCACCTG CAGAAATTACG AC	TCCCCCTTA TCATCCCAGC TTACTGCCAT ATGTGTTATC AATGC'AGTGGGCCC AACTTTCAGC TTTGAATTAG ATGTAGAAGA TGGAGGGCCTGTT AAACCTGGCA GAGCGACTGG GAGAGGCAAA GCCTCAAGATATTGA ACAACTTCCT TCTTATCGGT TCAATCCTAA CAACCA	AAGTA 420 GTGGA 480
(2) INFORMAT	ION FOR SEQ ID NO:1302: .	
(i) SE	EQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) M	MOLECULE TYPE: cDNA	
(xi) 5	SEQUENCE DESCRIPTION: SEQ ID NO:1302:	
TCCGCTGCTT CO ACATGGGGTT CO CTGCGTCATT T CCTTTCATTC CO TTCCAACAAA A	TCATGGCCT AGTATCTATC TAGTGCCTGT TTGTGCGTTT TTTTCCCCCCATTTC CTTCTGTCCT TTTTCCCTG CTCCTTGTTT TCCCAGCTCTGGAGGA GCAGAGGTGG CCGCCGTGGG GGGCGTTTG GGCTGTTCCTTTTACTCTTTAGACAC TGGCCCAACT CCAGGCTCAGGTGT TCTCTTCTGA CCTGCATGTT GAGTTCTGTA TTGCTACCAGAGGTC ACTGACAGAG GGAACAGCAG AGACCTTGTT GGTATTAGAGCGATCT CGAG	GCAGC 120 CGGTG 180 CGTTT 240 GGGGC 300
(2) INFORMAT	TION FOR SEQ ID NO:1303:	
(i) SI	EQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) 1	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1303:	
GAATTCGGCC A AATCTGGTGT G ACCTGCCTCA A	NANGAGGCCT AGGGTACGTG AATCTATTTT TTCAGCTGGA AATTT GTATTTTATA CTTATAGCAT ATCTCGAGGC AGGTCTAAAT TCAAT AGAGCTCGAG	TATGA 60 TCTAG 120 140
(2) INFORMAT	TION FOR SEQ ID NO:1304:	
(i) S	EQUENCE CHARACTERISTICS: (A) LENGTH: 620 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1304:	
TGTCTGAATA T CTGTGTGTGC C TCTGCAACCT C	AAAGAGGCCT AAATAAGTTT ACTTTTATTT TTGGTAACAC TTTAC TTGACAATCA GTATGCATTA TGAAGCTACC TGGCTAACAT TGTG CAGGCCCTGG GTTCAATGCT CTACATGCAC TTATATTTCA TTTA GAGATGGTAT AGCCACCTCA TTTTACAGAG TTGAAACTGA GGCT AGCCTGAGGT TGCAGTCAAT AAGAGGCAGA GCTGGAACTG AAAC	TACTCA 120 ATTCTC 180 CAGAGA 240

GTGTCTGACC ACCAGT	CGT GTTCTGACGG	CAGGCTAGTC	TGCATCACAG	AGTGTGGAGT	360
AGATGGTGCA TGCCTGC	CTAG GATGGGCTAG	GTATCACTGT	AGGTAAGAAA	CAGCCCCAAA	420
CTATGGAAAT GTACACO	CACC GAAGGCTCTT	TTCCTGCCCA	TGCTGCACAT	CCTCCATGGC	480
TCTCCTGTGC CCTGTGC	CCCC ACATGCCCTC	ATCCTGCCAC	GAGAATAAAG	GAGCAGCCTC	540
CATATGGGAG CTGTCAG	GCTG CTCTAAGAGA	TGAAGGAGAG	AGTGGCCCGT	CTCAATGGCT	600
CCCAACTCTT CTGCCTC	CGAG				620

- (2) INFORMATION FOR SEQ ID NO:1305:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 736 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

GAATTCGGCC AAAGA	AGGCCT ACTTTTGGCT	CAATGTTTTC	CAAACTTATT	TGACCCCAAA	60
ACCTTTTTCA TATA	CCCAAT AATAAGCTAC	AGAACTAATA	TTCTGCAAAT	GTCTCTTGGA	120
ACACACTGCC TTAA	ACAGAT ATTTCTATAG	CTGTCAGTAT	AGTTATGTTG	CTCCCAAGCC	180
TAGTTATCTC CAGT	TGTTTT AAGGGTGTTA	TGAAAAATTC	TTAAAATATA	TATGAATTTG	240
TGTAACACAC ACAG	AGACAC ACACACATAC	TACTTTAAGG	GGGTGAGGAT	CATTAATTCA	300
GATAATTTTT AAGT	TTCCTA GTGATTCTCA	ATCTCTTTGA	ATTTTACTTA	CATTTACACA	360
CACACGCACA CACA	TATGTA TATACACATA	TCATTTTAAG	AAGCTGAGGA	TCACTAATTC	420
AGATAATGTA TAAG	TTTCCC AGTGATTCTC	AACCTCTTTG	AATTTTACTT	ATAATTACAT	480
ACACACACAC ACTG	CTACTT ATATAAATGT	TCTCATGTAA	TCATGGTAAC	AGCTCAAATT	540
CCCAAAGCAA GGGAA	AGACTT CTCATTGTC	GTTAAACCTG	TTAAAACATG	AAAATATTCA	600
TTGAGCCTAG TTCC	TTGTTA TAAAATACAA	GAAATAAGAC	ATTCAGGCAT	TTTCCCTTTA	660
TGAAGATGTT CAGT	CATCCT TTCCTTGAAC	TACAATTAGG	AAAAGTATAT	GTCTTTATTC	720
CATTGAAGTT CTCG	AG				736

- (2) INFORMATION FOR SEQ ID NO:1306:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 511 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GAATTCGGCC	AAAGAGGCCT	ACAGCAATAT	GCATCTTGCA	CGTCTGGTCG	GCTCCTGCTC	60
CCTCCTTCTG	CTACTGGGGG	CCCTGTCTGG	ATGGGCGGCC	AGCGATGACC	CCATTGAGAA	120
GGTCATTGAA	GGGATCAACC	GAGGGCTGAG	CAATGCAGAG	AGAGAGGTGG	GCAAGGCCCT	180
GGATGGCATC	AACAGTGGAA	TCACGCATGC	CGGAAGGGAA	GTGGAGAAGG	TTTTCAACGG	240
ACTTAGCAAC	ATGGGGAGCC	ACACCGGCAA	GGAGTTGGAC	AAAGGCGTCC	AGGGGCTCAA	300
CCACGGCATG	GACAAGGTTG	CCCATGAGAT	CAACCATGGT	ATTGGACAAG	CAGGAAAGGA	360
AGCAGAGAAG	CTTGGCCATG	GGGTCAACAA	CGCTGCTGGA	CAGGTTGGGA	AGGAGGCAGA	420
CAAACTGATC	CATCATGGGG	TCCATCACGG	GGCCAACCAG	GCGGGAAGTG	AGGCAGGGAA	480
GTTTGGCCAG	GGAGTCGACA	ATGCACTCGA	G			511

- (2) INFORMATION FOR SEQ ID NO:1307:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 219 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GAATTCGGCC	AAAGAGGCCT	AATTTTTCCC	CACACCACAC	CACTGTCCTC	TGTGCCTGTG	60
GAAACCACTC	AAATGCCTCT	CCCCAAGCCT	TCTTTCAGTA	ACAACCATCT	CATCCGGTTG	120
ATTACTGTAG	CTTTCGGCCT	GTATAACCCC	TCCTTATGTC	ATGCCTGTAC	CAGATGTTCC	180
ACTGCATCTG	TATCCCACCA	GATTGCACAT	ACTCTCGAG			219

- (2) INFORMATION FOR SEQ ID NO:1308:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GCACTGCGCC TGGCCCTTG	T GGATACTTTC	TAGGTGATTT	GAGGAGGAAA	GGCACAGCCA	60
TGTCTCCTAA AGTTAACAA	G CACTAAGCTT	TCCCAAGTAG	TGAAATGTCA	AGCCTCTGCT	120
TCTGTCACTT ATTTGTTCA	T TCAGCAGAAA	GTCACTGAGA	GCCTTCTGTA	CACCAGGCAC	180
AGTGCTGGGC AGTGAAAGA	G ACAGACATGT	CCCTGGATCC	AGGGAGGAGA	TGACCAAGTG	240
ATGGCTGTCA GGCCCAGAC	C TTGCTGTTTG	TCTGCAGCCT	CTTCCCTCAG	GCAACTTGTT	300
CTCTATCAGG AGAAATGAA					344

- (2) INFORMATION FOR SEQ ID NO:1309:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 565 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCGGCC	TTCATGCCTA	AAAAGGGTCA	GAGGAAGGCA	GTATCCTTGG	GGTGTTGCTG	60
AAGTTGAAAA						120
ACATGCAGGA	CTTGAAAGAT	GTTACTAATA	ATGTCCACTA	TGAGAACTAC	AGAAGCAGAA	180
AACTTGCAGC	TGTGACTTAT	AATGGAGTTG	ATAACAACAA	GAATAAAGGG	CAGCTGACTA	240
AGAGCCCTCG	AGTTGCAGGG	AGCCCAGATC	ATGCCACTGC	TCTCCAGCCT	GGGTGACAGA	300
GCAAGACTCT	GTGCCCCCCC	CCCACCCCAA	AAAAAAAGAA	AACAAAAATT	AAAATCTTTA	360
GTTACTGTAT	TATTCAAAAA	TGTCTACTTT	CAAGAAAAAC	TACAGCCATG	CAAAGAAACA	420
GTAAAATGTG	ACCATACTCA	GGAAAAAAAG	CAGACAATAG	AAATGGCTTC	TCAGTAGGGC	480
TATATGTTGG	ATTTAGCAGG	CAAAGACTTC	AGAGGCCTTT	TAATAAGTAT	ATTCAAAGAA	540
TTACAGGAAA	ATATGAAAAC	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO:1310:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 104 base pairs
 - (B) TYPE: nucleic acid

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(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:	
TGCACAGCTG TAGTACCCCA AGAAGAAAAT GTTACTTCTC TCATCTGGGC AAAACCCACA GAAGACTTCC CAGCTTCTGC CACATAAAAG ACACAGAACT CGAG	6 10
(2) INFORMATION FOR SEQ ID NO:1311:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:	
GAATTTTGCG TTCTGTTTAG CATGCTATCC TGTGTGAAAG AAACTGAAAT CCAATATTAT GGAGAGTATG TTAAAGCCAC CTCTGAAATG AAGACCACTC TCGAG	6 10
(2) INFORMATION FOR SEQ ID NO:1312:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 407 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

GAATTCGGCC	TTCATGGCCT	AAAGGGAAGG	GAGGTGTGAG	GAGGATGGAG	TAAGAGTGAG	60
AGGTCCTAAG	AACATGGAGG	GAGGCTGTGT	GTGATCGATG	GAGAAATATG	GTCCTGAGAG	120
ATTTCTTGTA	GTCAAGAATG	GCCAATACAT	GTCTACCTTT	AACTGGTATT	GGAAGGAAGT	180
AGTTTCCTGC	TCTGTGCTCT	AAATACTCTC	TATTACCCTC	AAGATGTCAG	CAAAATGTGA	240
TACATAGCAA	TCTTGTGTTA	GAGATGCTTT	AGGAATTGCA	GAAAAACCAT	GCTATCAAGT	300
GGTAGGGAAG	TGAGTGGCAA	GAGGATGTCT	GTCACAGAAA	CTAGGGATAG	AGGGGCTGGC	360
AATGGCAGAG	ATGCAGGTGG	AGTGGACTGA	TTAAGGGGAG	TCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1313:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

GAATTCGGCC TTCATGGCCT AGGTCTTGCC ACATTGGCCA GGCTGGTCTC GAACTCCTGG

GTTCAAGTAG	TCCTCCACCT	CAGCCTCTCA	AAGTACTGGG	ATTACAAGCG	TTGAGCCACC	120
CTCCCAGCCT	TTGCCTTTTT	TTTTTTTTT	TTTTTTTTTA	GGAGGAGAAT	TAATTGATAC	180
ATAGACCCCT	TAAGAGAAGG	GATGCTATGG	GCAGGAAGAG	ATTGAAGGTA	AAGGAAAAAG	240
GATTCAGCAC	CCAAGCAAAA	CAATTGGCCT	GTGATAGAAG	GGCGATCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:1314:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

GAATTCGGCC	TTCATGGCCT	AGATCCAAGA	AGCTCAACAG	ACCTCAAGTA	GGATAAACAC	60
AAACAGATCT	TCACTAAGTC	CTACTGCTGA	AAGACAAAGA	CGAGGAGAAC	ATCTTGAAAG	120
CAGTGAGAGA	AAAACAACTC	ATTATGGAGA	GAGCAATGAT	AAAATTCTTA	TCAGAACAGT	180
GGAGGCCAGA	AGGAAATAGA	GTGACATATT	CAAAATGCTG	AAGGAAAAAT	TTGCAACTAC	240
AAGTTCTAGA	TCCAGCAAAA	TTATCCTTCA	AGAATGAAGG	TTTAGTAAAG	ACATTCCCAG	300
ACCCTCGAG						309

- (2) INFORMATION FOR SEQ ID NO:1315:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 469 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

TGGGATTACA	GGCATGCACC	ACCACACCCA	GCTAATTTTG	60
TTTCACCATG	TTGGTCGGGC	TGGTCTCAAA	CTCCTGACCT	120
CCTCCCAGAG	TGTTAGAATT	ACAGGCGTGA	GCCACTGCAC	180
AAACGGCGCA	GGGTTGTCCT	TGAAAGTCCC	AGGTTTCCTC	240
GTGGGTGATT	TCAGGCAGGA	CACGCAGTGT	CTGGGGACCC	300
GATTGTTATG	GTCCAGAGGG	TGGTAACTCA	GGTGTTCATG	360
GCAGCTGCTG	GAGTCTCCTG	ATTGGAGAGC	AGCAAATGAC	420
TGTACCTCTA	GCACCCCCAC	TCGCTCGAG		469
	TTTCACCATG CCTCCCAGAG AAACGGCGCA GTGGGTGATT GATTGTTATG GCAGCTGCTG	TTTCACCATG TTGGTCGGGC CCTCCCAGAG TGTTAGAATT AAACGGCGCA GGGTTGTCCT GTGGGTGATT TCAGGCAGGA GATTGTTATG GTCCAGAGGG GCAGCTGCTG GAGTCTCCTG	TTTCACCATG TTGGTCGGGC TGGTCTCAAA CCTCCCAGAG TGTTAGAATT ACAGGCGTGA AAACGGCGCA GGGTTGTCCT TGAAAGTCCC GTGGGTGATT TCAGGCAGGA CACGCAGTGT GATTGTTATG GTCCAGAGGG TGGTAACTCA	TGGGATTACA GGCATGCACC ACCACACCCA GCTAATTTTG TTTCACCATG TTGGTCGGGC TGGTCTCAAA CTCCTGACCT CCTCCCAGAG TGTTAGAATT ACAGGCGTGA GCCACTGCAC AAACGGCGCA GGGTTGTCCT TGAAAGTCCC AGGTTTCCCT GTGGGTGATT TCAGGCAGGA CACGCAGTGT CTGGGGACCC GATTGTTATG GTCCAGAGGG TGGTAACTCA GGTGTTCATG GCAGCTGCTG GAGTCTCCTG ATTGGAGAGC AGCAAATGAC TGTACCTCTA GCACCCCAC TCGCTCGAG

- (2) INFORMATION FOR SEQ ID NO:1316:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC TTCATGGCCT AATCTATGTG TGTCAACTTT CATAGAACCC TACACCAAAA 60
AAGGTGAATT TTATTTCGTG ATAAATTAAA AAGTAAAACA AAAGAGACAA AAATAGTAAC 120

CAGGGAAGCT TTCAAAA	AAAT ATATGTTCTT	GTTCAAGACC	AGCATGGCCA	ACATGGCGAA	180
ATCCCATCTC TAATAA	AAAT AGAAAAATTA	GCCAGGCGTG	GTGGTGGGCG	CATGTAGTCC	240
CAGCTATCCA GCACCGG	CTCG AG				262

- (2) INFORMATION FOR SEQ ID NO:1317:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 497 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC	TTCATGGCCT	AAAGGAATGG	TATTTTGGCA	ACGCAGACAA	AGAAAGGAGT	60
GGCCCGTATG	GATTTCA (GA	GATGCAAGAA	TTGTGGACCA	AAGGAATGTT	AAATGCAAAA	120
ACCAGATGCT	GGGCTCAAGG	CATGGATGGA	TGGCGACCAC	TTCAGTCCAT	ACCCCAGCTC	180
CGAGTCATAT	AAGGTAACCC	AGACAACCAC	CTACGAATTT	AAAGCTCCTA	TAAGTTGCCC	240
TTTCTGCATC	CGAAGTGTGA	TATTTGAAAG	TTAAAAACGT	TATCTTACAT	ACATAGATCT	300
TAAAACGTAT	CTTACACCAC	AACCTACTCA	CAGATGCAAA	GGCAGTGGTC	GTGGTCTTCC	360
ATTGCTTGGG	GTCCTGGGGC	CGGGTTTGAG	GCTGAATGTC	AGGGTTTCCT	TTGCCATAAC	420
CTCATTCTGC	ACCACGTGCT	GTCAGCCAGG	CAGCCAATGT	GGACTTGGAG	GCTGGCATCT	480
GCTGGGCACT	GCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:1318:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 451 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

GAATTCGGCC	TTCATGGCCT	AATCTGGATG	TCTGTCCAAG	GCCTGACTGC	TGAACTCCTA	60
CTTTTCCTAC	AAAACCCTAC	CCACATGGCC	CTTCCTGCGG	GAAGAGATCT	TGAGCCTCCC	120
TGGCTATTAA	GACTCTGCTG	TGCAGCCTTC	TTTTACTGGA	CTCAGGGCTA	TCTTCCCCAG	180
ACTAGGGCCT	TCTTGAGGAC	AATCGTGGTG	GCCCAGTGGT	TGACGCTGTC	TCCCCTGCAT	240
GTAGTTGGTC	TTCCTGGTTG	CTTCTTGCCC	CTGTGGCTCC	CTTGGGAGAC	TGAAACTCAG	300
AGGACAGCTT	CTGGTCTGCT	GTTACATGGC	TCCCACAGGG	AGACTGGCCC	CACCTGTGCC	360
CCACCCATCA	CAGCTAGGGC	CTGGGATGGG	TCAGACACTG	GAAGAGCCTC	CCCCTAGGCC	420
ATGCATATGG	ATCGTGCCCA	CACGCCTCGA	G			451

- (2) INFORMATION FOR SEQ ID NO:1319:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 477 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

GAATTCGGCC TT	CATGGCCT	ACACTACGGT	ACTCCCAGCA	TATCACCCTT	AATGTAACTT	60
TAAATAACAT GG	SCCATTTTT	TAAAAAGGAC	ACAGGAACTA	CATAACATTT	TTTTTCAGAT	120
TTTGGAAAAT TC	TAAATATG	TCTAGAAAAA	CTTTTCTTTC	TGTTCCATTC	TCCTTCCTAT	180
TCTCCATGAC CC	CCTCCCCG	CGGACTGTAT	CAGGTACAGC	CTGTTGGAAA	TCCAGCACCG	240
CACATTAGGC AC	CACCAGTGG	TAAGTTTACT	TGTTGAGTTA	TCACCTTTTT	TTTCCTTTTA	300
ATCAGAGAGG CA	GCTCTGTG	TTGAAGATGC	TAGGTAGTGA	TGGAAAAGAC	ATTAGGAAAA	360
TTTGTTACCG TG	GTAACCGG	GGATGGACAT	CATGACCTTT	TGTGATATGC	ATGCTGTGGC	420
CTTGGTAGTC TO	TTCCCCTA .	ATTAACATCC	TGTGAGAAAC	GTGAGAGATG	ACTCGAG	477

- (2) INFORMATION FOR SEQ ID NO:1320:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

GAATTCGGCC	TTCATGGCCT	AGACGGAGGC	TGGAGATTCA	CATGGGGCGA	GGAGTTGCAG	60
ACCAGCCTGG	GCAAAGCATG	GTGAGGCCCC	GTCTCTGCAG	AAATGAGAAA	ATGAGCTGGA	120
TGTAGTGGCA	CCGACATGTG	GTCCCAGCTG	CTGGGAGGGC	TGAGGTGGGA	GGATTGCTTG	180
AGCCTAGGAG	TTCAAGGCTG	CGGTGAGTAG	ATCGTGCCAC	TGCGCTCCAT	CCCTGGCAAC	240
AGAGCAAGAT	CATTTCTCAA	AAAGAAAAA	AAAGCCATCT	CGAG		284

- (2) INFORMATION FOR SEQ ID NO:1321:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 254 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

GAATTCGGCC	TTCATGGCCT	AGGGAAATGT	GTGATTGGGA	AAGAGGCAGC	TAAAAATTTT	60
GTGTCTGGCC	TTTGACCACG	CAATTTCACT	TTCCAGTATT	TATTCTAGGA	AAATACTCAT	120
ACTATTGCAA	AGTTTATATA	TAAAGATAGT	TATAACTGCA	TTGTTTATCA	TTTACAAAAA	180
GAAAACATCT	GAAAGCCCAA	CAAGACGGAA	CTGGTTATTC	CACATTGGCA	CATTCATACA	240
AGGCAATGCT	CGAG					254

- (2) INFORMATION FOR SEQ ID NO:1322:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

GAATTCGGCC TTCATGGCCT AGGCACAGAA AAATTGGAAA GGATTGGTGG TCGTACATCT 60
TGCAGCTCAC TTAGTAGCTG CATGCATGTA GACCGGGTGG TGTTGATGCA GTGTTGACTT 120

GCTGGCATTG	GGGTGGGTGG	TAGCATGGTC	AAGCTGGCTG	AGTGATGGGA	TATTGTCTCA	180
GAGGTTGGTG	CAGGGAAACT	CTGTGGGTGT	GTCTAATGCA	AGGATAATGA	CAATGTCCTG	240
TCTGCCTGGT	CTTTGGGGGG	TCAGGTGGAG	ATGTCCTTTT	GGAAAGGCAG	CCATTCTCTT	300
TGAGTGTCCA	GAGGGCATGG	TGCAGGCACA	TGGATTGAGT	${\tt GGAGGACTCG}$	AG	352

- (2) INFORMATION FOR SEQ ID NO:1323:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 440 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

GAATTCGGCC	TTCANGGCCT	ACTGTGTGTA	GAATTCTGTT	TTCTCATGAT	ATTGAAGACA	60
TTATTCCAGT	ACTTTGACTG	CTAGTATTGC	TGTTGAAAAG	TCTTAATTGC	CCTTCCTTTG	120
TAAGTAATAA	CCCTTTTATT	TGGCTGTGTT	AAGCCTTTTT	TTTTCCTTCC	CATTTAGTGT	180
TTTGCAGTTT	TGTATAATGT	ATTGAGGGCG	TTATTTTTTT	CATTCCATCA	TTTTATTTT	240
TGTAATCCCA	CTTGGGATTC	TTTGGGCTTC	CTGGATCTGA	${\tt GGATAATAAT}$	AATGTCTTTG	300
AATAATTGTG	GAAAATTCTT	AACCATTATC	TCTTTGAATA	ATGCCTCTTA	TTTTCTCCTT	360
CTATAACTCT	AATTAGACAT	ATAGTCTATT	TTTCATGTTA	CTTATGCCTT	TTCATCCTTT	420
TTCGTCTCCA	CATACTCGAG					440

- (2) INFORMATION FOR SEQ ID NO:1324:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TAAAATGCCC	AGTTACCTGA	60
AATTGTATAA	ATTCTTGCCA	AAAGTGTTTG	AACTTAATAC	AAACTTCCCA	TCTCTTACCT	120
CTTAGCACTG	TGCTCATCTT	GAGGGGACAT	AGTCCCAATT	TTGTATTTTA	TATAATACTG	180
TTAATGAATA	TGTGTAGACT	TCATATGGTT	GTGGGTAAGA	GAATACTGCA	TTCAGATAGA	240
AAAGATGCTA	TATAGCTAAG	TTGATCCGCG	GATCCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:1325:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 281 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

GTTTCCTTTT	CTACTTACAA	AGAAAATAAA	TAGAAATAGA	TTTTACATGC	TTTATTTCTT	60
TGAGACAAGC	CATTGTAAAT	TGTTACTAGA	CTAAGTAGTA	GTATACCAGT	CATTGACTGG	120
TCTTTTCAAC	TCCACTCAAA	TTTGTAAAAA	GCAATTCCTC	TTATACTATC	ATCTTTTTTG	180

TTTTTTAAGG	TTTTTGTTGT	TGTTTGGTTT	TTTGGCAAAA	CATGATACAT	TTCTCATGCT	240
TGATCTAAAG	${\tt AGGCTTTACA}$	TAAGAGACAG	AGTCGCTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:1326:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCGGCC	TTCATGGCCT	ACTATCTTGA	ATGTCCAACT	CCAACTCCTA	ATTATTTAA	60
AAATCTATGC	ACTTCTTTCA	CTTGAATTTC	TATGCCCTCA	TAGACTTTAC	AGGCACATGT	120
TCTATCACCA	ATTAAGAGAA	ATTTAACTTA	CACATTTTAC	AACTTATACA	TGCAATTTGG	180
CTGAGCTTAT	ACAGCACAGA	TCAACATTAC	AATCAATTTA	CTGCCATGTT	ААААААААА	240
TCAGTGAACA	TTGTTCGGCT	GACCTAATTT	TTTGAAATAA	GTTGGCCATC	AGTGTAATTG	300
ATTGAGCTAT	CTGTACAACC	CCCAACCTAC	CTAAGCAAAG	GGCTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:1327:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 680 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GAATTCGGCC	TTCATGGCCT	ACACGGACTT	ACATCCTCAT	TACTATTCTG	CCTAGCAAAC	60
TCAAACTACG	AACGCACTCA	CAGTCGCATC	ATAATCCTCT	CTCAAGGACT	TCAAACTCTA	120
CTCCCACTAA	TAGCTTTTTG	ATGACTTCTA	GCAAGCCTCG	CTAACCTCGC	CTTACCCCCC	180
ACTATTAACC	TACTGGGAGA	ACTCTCTGTG	CTAGTAACCA	CGTTCTCCTG	ATCAAGTATC	240
ACTCTCCTAC	TTACAGGACT	CAACATACTA	GTCACAGCCC	TATACTCCCT	CTACATATTT	300
ACCACTAACC	CTCGAGACCA	CTTCATATAA	ATACTTATTT	ATTTCCTATT	TCCCCTGACT	360
AGAAATATAA	GCTCCATGGT	AGCAGAGATT	CTGATTGCTG	CCTACTCTAT	CCCCAGCTCC	420
TATACTAGGC	ACCATGAGTA	CATGATCAGA	AAATATTCAT	GGAAAAAAAT	ACATAAATGT	480
ATAACAATCT	TCATTTGTGA	GTAAGAAGAT	GGGCTCTGGA	ATCAGACTGC	CTGGATTGAA	540
ATCCTAACTT	CATCACTTAC	TAGTCATGGG	ATATTTTACC	TCAGTTTCAC	TTTTTGAAAA	600
TGAAGATAAT	AATGTCTACC	TTATAGTATT	GTGAGGATTA	AGTGAATTAA	TGCACACAAA	660
ATTAGGCCAT	GAAGGCCGAA			•		680

- (2) INFORMATION FOR SEQ ID NO:1328:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 499 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

TGTCATTTAC TCACTAGATTG GTCACCTGAG TTACAATAGA CCTCGGATGCT TGACGATGATACATAGATAGATAGATGACCCA AGTTGACCCA AGTTGACCA AGTTGACCCA AGTTGACCA AGTTGACCCA AGTTGACCA AGTTGACCCA AGTTGACCA AGTTGACA AGTTACA AGTTGACA AGTTACA AGTTGACA	CCGCGTCGAC TGTCACTGAG CTTCTTGCT CTCTTATATA TATTCTTTAT TTTGGTGGAC GAAGAGAAGG AGAGAGTTG AATTGGCCT GGGTCCTCAG GCAAGACATA TTGGATATTT GGAACTCCTC CTTAAATTGA TGTTTGTGAA CTGCCAGAGC AGACTACTAA AGCTTTACCT GTGAGGTTTT TGTTTACAGA CTGTCCAGTG TAGGTGGAGA AACTTCTCTG GCTGAAATGA TTGCAACCCT TCTGAAACAG AGTTTGGCTT TTTGGCAACC AGGCTTTTTC GAGTATTCAA ACTCAGGGTA AAAAGAAATG GAAAAAAACA TGTTGTCTCC CATCTTTTGT CTTATCATTG GCTGCATTAT ATCTGGAATT ACTCTTCTGG CTATATTTAG AAGCTCGAG TION FOR SEQ ID NO:1329:	60 120 180 240 300 360 420 480 499
(2) INFORMAT	TON FOR SEQ 1D NO:1329:	
(i) S	EQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1329:	
TTATACTTCT G	CGCGTCGAC CGCTGCCAAA TGCTTCACTC CTATCTACTC TCCCGATTCC AAACCTCCTC AACAGAAATC TTGCTCTCTC CCTAAATCCT CAGTGCAACA AAAACTAAAT GATCCCTCCT CAGCCAGACA GAAAACTCTC AACATATCAA CGTGGACAG	60 120 180 200
(2) INFORMAT	TION FOR SEQ ID NO:1330:	
	EQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1330:	
TGATGACAGG A	AAGAGGCCT ACAGTCTTTT TAGGCATGTT TTTTTTTTTT	60 120 158
(2) INFORMAT	TION FOR SEQ ID NO:1331:	
(i) S	EQUENCE CHARACTERISTICS: (A) LENGTH: 552 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	

60

120 180 240

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

GAATTCGCGG CCGCGTCGAC GATCATGAAG CGCTCGGTAG CCGTCTGGCT CTTGGTCGGG

CTCAGCCTCG GTGTCCCCCA GTTCGGCAAA GGTGATATTT GTGATCCCAA TCCATGTGAA AATGGAGGTA TCTGTTTGCC AGGATTGGCT GATGGTTCCT TTTCCTGTGA GTGTCCAGAT

GGCTTCACAG ACCCCAACTG TTCTAGTGTT GTGGAGGTTG CATCAGATGA AGAAGAACCA

ACTTCAGCAG	GTCCCTGCAC	TCCTAATCCA	TGCCATAATG	GAGGAACCTG	TGAAATAAGT	300
GAAGCATACC	GAGGGGATAC	ATTCATAGGC	TATGTTTGTA	AATGTCCCCG	AGGATTTAAT	360
GGGATTCACT	GTCAGCACAA	CATAAATGAA	TGCGAAGTTG	AGCCTTGCAA	AAATGGTGGA	420
ATATGTACAG	ATCTTGTTGC	TAACTATTCC	TGTGAGTGCC	CAGGCGAATT	TATGGGAAGA	480
AATTGTCAAT	ACAAATGCTC	AGGCCCACTG	GGAATTGAAG	GTGGAATTAT	ATCAAACCAG	540
CAAATCCTCG	AG					552

- (2) INFORMATION FOR SEQ ID NO:1332:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 760 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCGCGG	CCGCGTCGAC	CTCAGAACTA	${\tt TTTAAATTTA}$	GTTAAATTAC	TTTATATTAT	60
TATAGTAAAT	ATTGGTCCAC	TTTATAGCTC	AGAACCTAAA	AAGAGAATAT	GTACCCAAAC	120
TTCTCTATGT	TTACAACCAA	CCCAGAGTTT	AAGATTCTGA	ATTGTGCTTT	GTTTTGTTAA	180
AAATTTAACC	AAGGGTCAGG	CACAGAGGCT	CATGCCTATA	ATCCCAGCGC	TTTGGGAGGC	240
CGAGGCGGGT	GGATCACTTG	AGTTCAGGAG	TTCGGGACCA	GCCTGGCCGG	CATGGTGAAA	300
CCCCGTCTCT	ACTAAAAATA	CAAAAGTTAG	CCGGGTGTGG	TGGCATGTGC	CTGTGGTCCC	360
AGCTGCTTGG	GAGGCTGAGG	CAGGATAATC	NCTTGAACCC	AGGAGGCAGA	GGTTGCANTT	420
GCAGTGAGCC	GGGATTGTGC	CATTGTACTC	CAGCCTAGGC	AACAAGAGCG	AAACTCTGTC	480
AAAAAAATT	AAAAGAAAAA	AAAATTAACC	AAGGTTCTCC	TTTCTCTAAA	TCTAGCAATT	540
TGTTCTATTT	TTCAGAAATA	AACTTAATAA	TTTTAATACA	GATTTTAGCT	TTGGCTTTTT	600
TCTTACTTTT	TAGTTTGCAA	ATTATTTAT	GGTATTCCTA	CAAAGTAGAT	ACAAATTTGC	660
ATTCAGAATG	CACCTTTTGT	TTTTCTGGGT	TTTTTTTTTT	GTTTGTTTGT	TTTTTCAGAA	720
AACTCATGGA	AAAGTACACT	GTTCACCTCA	GCATCTCGAG			760

- (2) INFORMATION FOR SEQ ID NO:1333:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 579 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCGGCC	AAAGAGGCCT	ANAACTGGGT	AAGGAGCAAA	AAAAGTGACA	GAGGCCAGGC	60
GCGGTGGCTC	ATGCCTACAA	TCCCAGCACT	CTGGCCAAAT	ATTTGATTTT	AAATTCCCAT	120
TGTTACTGAT	TAAAAAAAAA	AAAAATCTGG	ACCAGTTAAC	CTGGAGATTT	AGAGGCTATA	180
GACACAATTT	AACATCCATA	CAGGCCTGTG	AACTTCATGC	AGAGAACAAA	CAAACAAACA	240
AAAACTCTAA	TTCAGAGTCT	CTCATTTCAG	CTTAGCCAAC	ACATTTGGAG	ACTTAGGGGC	300
CAGTTCTAGA	AGCTGCTTTT	ACCTCTAGAC	TCGGAGGGGC	AGGCCCTGTC	ACCGAAGGGA	360
GGAAAACTCT	TCTTGGCTGT	CAGCCCGGAT	TGAAGCCACT	TCGCTTCCCC	TGGCCCCAGC	420
TTTCCTGCAC	TCTTTTCACC	GTGTCTGACA	CAGGGCAAAC	CACCAACCAC	TCAAATGAGC	480
AAACAATTCC	AGAAAAAAGA	ATCCGAGATA	AAGAATAACC	AACTAGGAGT	CTTTCCATTG	540
TAGCCTAAAC	CGTCGATTGA	ATTCTAGACC	TGCCTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:1334:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 521 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GAATTCGCGG	CCGCGTCGAC	CAACAAGGGC	AAAGGCCTTG	AGACACAAAC	CAACTGTGTG	60
GGTGTAAAGG	TAAGAAAGGC	CAGTGAGGCC	AGCATGATGA	ACTGGGGGAG	CATGGTGGCT	120
${\tt GATTTGGTCA}$	GGAAGGGAAC	AGAAACCAGA	CCACTTGGGA	TCTTCTAGCC	AGAGTAAAGA	180
GACTGAGTTT	ATTCCTATTG	TAATGGGGAG	CTATTCAGAG	AGGTTAATCA	TGGAAGTGAT	240
GTGACCTGAG	CTACACTCTT	AAAAGATGCC	TCTGGCTGCT	GTGTGGAGAA	TGAACCATGG	300
GGGCAAAAGC	AGAAACAAGA	AGACCACTTA	AGAGGCTCTT	GCAATAATTT	ATGTGAGAAG	360
AGTGATCATC	TTGACTAGGG	TGGTGGTGGT	AGAGGAGGTG	${\tt AGTGGTGGTC}$	AGGACTGAGA	420
GGAGCCAACA	GAATTTGCTG	${\tt GCTTGCTTGG}$	ATGTGGGTGA	TGAGGCAAAC	TGAGAATCCA	480
AGATGGCACC	AAGGCTTATA	CCCTGAGCAA	CTGAACTCGA	G		521

- (2) INFORMATION FOR SEQ ID NO:1335:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 775 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

GAAATTCGCG	GCCGCGTCGA	CGCTCTTGAG	TGAGACCCAA	CAAGCTGCTT	TTCACCAAAT	•	60
TGCAATGGAG	CCTTTCGAAA	TCAATGTTCC	AAAGCCCAAG	AGGAGAAATG	GGGTGAACTT	1.	20
CTCCCTAGCT	GTGGTGGTCA	TCTACCTGAT	CCTGCTCACC	GCTGGCGCTG	GGCTGCTGGT	1	80
GGTCCAAGTT	CTGAATCTGC	AGGCGCGGCT	CCGGGTCCTG	GAGATGTATT	TCCTCAATGA	2	40
CACTCTGGCG	GCTGAGGACA	GCCCGTCCTT	CTCCTTGCTG	CAGTCAGCAC	ACCCTGGAGA	3	00
ACACCTGGCT	CAGGGTGCAT	CGAGGCTGCA	AGTCCTGCAG	GCCCAACTCA	CCTGGGTCCG	3	60
CGTCAGCCAT	GAGCACTTGC	TGCAGCGGGT	AGACAACTTC	ACTCAGAACC	CAGGGATGTT	4	20
CAGAATCAAA	GGTGAACAAG	GCGCCCCAGG	TCTTCAAGGT	CACAAGGGGG	CCATGGGCAT	4	80
GCCTGGTGCC	CCTGGCCCGC	CGGGACCACC	TGCTGAGAAG	GGAGCCAAGG	GGGCTATGGG	. 5	40
ACGAGATGGA	GCAACAGGCC	CCTCGGGACC	CCAAGGCCCA	CCGGGAGTCA	AGGGAGAGGC	6	00
GGGCCTCCAA	GGACCCCAGG	GTGCTCCAGG	GAAGCAAGGA	GCCACTGGCA	CCCCAGGACC	6	60
CCAAGGAGAG	AAGGGCAGCA	AAGGCGATGG	GGGTCTCATT	GGCCCAAAAG	GGGAAACTGG	7	20
AACTAAGGGA	GAGAAAGGAG	ACCTGGGTCT	CCCAGGAAGC	AAACAGAGAC	TCGAG	. 7	75

- (2) INFORMATION FOR SEQ ID NO:1336:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 155 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (2, 10102001 1211001

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

GTAGATTTAG	ATGTACAGAT	AGAGGTATGA	TTTTTTTAAA	AGGCACCTCA	GTATGGGTAA	60
TGTTATCTTT	CTTGTGTTTC	AGTGCACACA	CATACACACA	CACCATAGAT	GCAAAGTGTG	120
TAGAAAATGT	ATTGAAGGAT	ACCCAGGTAC	TCGAG			155

(2) INFORMATION FOR SEQ ID NO:1337:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:	
GAATTCGCGG CCGCGTCGAC ATTCATGCAA ATAAATATAT TACTAAAATG CTTTTTCCTC TTTTTCTTCC AGTTTTAGTT TATGAGATTG GGTCTTGCTA GCTAGGCATG AACTCGAG	
(2) INFORMATION FOR SEQ ID NO:1338:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 249 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:	
GAATTCGCGG CCGCGTCGAC CTAAACCGTC AATTCTTCCC ATCTTAGGTT GAAGCCTTCT CTTTAGAATC GAACATTTC TCTTCTGGCT TTGTTCGGAT CTGTTTCTTT CTTGCTCCCT CGTGGCTTTC ACTTCTGTT TCTTTCCCAG CTCTCATTTG ACCGTGTGCT TTCCGAAGCA CCTGCTGCCA CCTTGTCTCG TTACTCGAG	GGTTTCTGGT 120 AATGACGGTC 180
(2) INFORMATION FOR SEQ ID NO:1339:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:	
GAATTCGCGG CCGCGTCGAC AAAACAACAC ATTTTAAAGA TTACGTGCTT GTTTGTGAAT GACAGTTTAT CGTCATGCTG TTAGTGTGCA TCCTCGAG	CTTGGTACAG 60
(2) INFORMATION FOR SEQ ID NO:1340:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 652 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
536	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GAATTCGGCC	AAAGAGGCCT	AATAGAAGGC	ATTCCATATT	TGTTCAATGA	ATTAACAAAT	60
GTTTTTCATA	TTAATTGTTC	TGATTTTTAC	CTCCTTAGGC	CAGCCTTTAT	TATTGCCATA	120
TAAGCCTTCT	GGTAGTACCA	AGATGTATTA	TGTTCCACAA	TTAAGACAAA	TTCCTCCATC	180
TCCGGATTCC	AAATCAGATA	CCACCGTTGA	AAGCTCCCAT	TCAGGATCCA	ATGATGCCAT	240
TGCTCCAGAC	TTCCCAGCTC	AGGTGCTAGG	CACAAGAGAT	GATGACCTCT	CAGCCACTGT	300
TAACATTAAA	CATAAAGAAG	GAATCTACAG	TAAGAGGGTA	${\tt GTGACTAAGG}$	CATCCTTGCC	360
AGTGGGAGAA	AAACCCTTGC	AGAATGAAAA	TGCAGATGCC	TCAGTTCAAG	TGCTAATCAC	420
${\tt TGGGGATGAG}$	AACCTCTCAG	ACAAAAAACA	GCAAGAGATT	CACAGTACAA	GGGCAGTGAC	480
TGAGGCTGCC	CAGGCTAAAG	AAAAAGAATC	TTTGCAGAAA	GATACTGCAG	ATTCCAGTGC	540
TGCTGCTGCT	GCAGAGCACT	CAGCTCAAGT	AGGAGACCCA	GAAATGAAGA	ACTTGCCAGA	600
CACTAAAGCC	ATTACACAGA	AAGAGGAGAT	CCATAGGAAG	AACGACCTCG	AG	652
	GTTTTTCATA TAAGCCTTCT TCCGGATTCC TGCTCCAGAC TAACATTAAA AGTGGGAGAA TGGGGATGAG TGAGGCTGCC TGCTGCTGCT	GTTTTTCATA TTAATTGTTC TAAGCCTTCT GGTAGTACCA TCCGGATTCC AAATCAGATA TGCTCCAGAC TTCCCAGCTC TAACATTAAA CATAAAGAAG AGTGGGAGAA AAACCCTTGC TGAGGCTGCC CAGGCTAAAG TGCTGCTGCT GCAGAGCACT	GTTTTTCATA TTAATTGTTC TGATTTTAC TAAGCCTTCT GGTAGTACCA AGATGTATTA TCCGGATTCC AAATCAGATA CCACCGTTGA TGCTCCAGAC TTCCCAGCTC AGGTGCTAGG TAACATTAAA CATAAAGAAG GAATCTACAG AGTGGAGAAAAACCCTTGC AGAATGAAAA TGGGGATGAG AACCCTTCAG ACAAAAAACA TGAGGCTGCC CAGGCTAAAG AAAAAGAATC TGCTGCTGCT GCAGAGCACT CAGCTCAAGT	GTTTTTCATA TTAATTGTTC TGATTTTAC CTCCTTAGGC TAAGCCTTCT GGTAGTACCA AGATGTATTA TGTTCCACAA TCCGGATTCC AAATCAGATA CCACCGTTGA AAGCTCCCAT TGCTCCAGAC TTCCCAGCT AGGTGCTAGG CACAAGAGAT TAACATTAAA CATAAAGAAG GAATCTACAG TAAGAGGGTT AGGGATGAG AACCCTTGC AGAATGAAAA TGCAGATGTC TGAGGCTGCC CAGGCTAAAG AAAAAGAATC TTTGCAGAAA TGCTGCTGCT GCAGAGCACT CAGCTCAAGT AGGAGACCCA	GTTTTTCATA TTAATTGTTC TGATTTTTAC CTCCTTAGGC CAGCCTTTAT TAAGCCTTCT GGTAGTACCA AGATGTATTA TGTTCCACAA TTAAGACAAA TCCGGATTCC AAATCAGATA CCACCGTTGA AAGCTCCCAT TCAGGATCCA TGCTCCAGAC TTCCCAGCTC AGGTCTAGG CACAAGAGAT GATGACCTCT TAACATTAAA CATAAAGAAG GAATCTACAG TAAGAGGGT GTGACTATAG AGGGGATGAG AAACCCTTGC AGATGAAAA TGCAGATGCC TCAGTTCAAG TGGGGATGAG AACCCTCTCAG ACAAAAAACA GCAAGAGAT CACAGTACAA TGAGGCTGCC CAGGCTAAAG AAAAAGAATC TTTGCAGAAA GATACTGCAG TGCTGCTGCT GCAGAGCACT CAGCTCAAGT AGGAGACCCA GAAATGAAGA	GAATTCGGCC AAAGAGGCCT AATAGAAGGC ATTCCATATT TGTTCAATGA ATTAACAAAT GTTTTCATA TTAATTGTCT TGATTTTAC CTCCTTAGGC CAGCCTTTAT TATTGCCATA TAAGCCATA GTTAAGACAAA TCCCCATA TTAAGACAAA TCCCCATA TCCGGATTCC AAATCAGATA CCACCGTTGA AAGCCCCCAT TCAGGATCCA ATGATGCCATA TGACCATATAAA CATAAAGAAG GAATCTACAG TAAGAGGGTA AAACCCTTGC AGAATGAAAA TGCAGATGCC TCAGGTACAA CATAAAGAAG AAACCCTTGC AGAAAAAACA GCAAGAGAT CACAGTACAA GGGCAGTGC CAGGCTACAA AAAAAACA GCAAGAGAT CACAGTACAA GGGCAGTGC CAGGCTAAAAAACA TTTCCAGAAA GAATCTACAG TGCGAGTGCC CAGGCTAAAAAACA CACAAAAAACA GCAAGAGATT CACAGTACAA GGGCAGTGC TGCTGCTGC CAGGCTAAAA AAAAAAACA TTTCCAGAAA GAATCTCCAG ATTCCAGTGC CAGGCTACAA AAAAAACA CACACAAAAACA CACAAAAAACA CACAAAAACA CACAAAAAA

(2) INFORMATION FOR SEQ ID NO:1341:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) Lingth: 817 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

GAATTCGGCC	AAAGAGGCCT	ACGTGCCATT	TCTCTTCCAC	TATGAGAGGA	CCGATTGTAT	60
TGCACATTTG	TCTGGCTTTC	TGTAGCCTTC	TGCTTTTCAG	CGTTGCCACA	CAATGTCTGG	120
CCTTCCCCAA	AATAGAAAGG	AGGAGGGAGA	TAGCACATGT	TCATGCGGAA	AAAGGGCAGT	180
CCGATAAGAT	GAACACCGAT	GACCTAGAAA	ATAGCTCTGT	TACCTCAAAG	CAGACTCCCC	240
AACTGGTGGT	CTCTGAAGAT	CCAATGATGA	TGTCAGCAGT	ACCATCGGCA	ACATCATTAA	300
ATAAAGCATT	CTCGATTAAC	AAAGAAACCC	AGCCTGGACA	AGCTGGGCTC	ATGCAAACAG	360
AACGCCCTGG	TGTTTCCACA	CCTACTGAGT	CAGGTGTNCC	TCAGCTGAAG	AAGTATTTGG	420
TTCCAGCCAG	CCAGAGAGAA	TATCTCNTGA	AAGTGGANTT	GCCAAGGCCA	TGTTAACCAT	480
TGCTATCACT	GCGACTCCTT	CTCTGACTGT	TGATGAAAAG	GAGGAACTCC	TTACAAGCAC	540
TAACTTTCAG	CCCATTGTAG	AAGAGATCAC	AGAAACCACA	AAAGGTTTTC	TGAAGTATAT	600
GGATAATCAA	TCATTTGCAA	CTGAAAGTCA	GGAAGGAGTT	GGTTTGGGAC	ATTCACCTTC	660
ATCCTATGTG	AATACTAAGG	AAATGCTAAC	CACCAATCCA	AAGACTGAGA	AATTTGAAGC	720
AGACACAGAC	CACAGGACAA	CTTÇTTTTCC	TGGTGCTGAG	TCCACAGCAG	GCAGTGAGCC	780
TGGAAGCCTC	ACCCCTGATA	AGGAGAAGCA	CCTCGAG			817

- (2) INFORMATION FOR SEQ ID NO:1342:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 476 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

GAATTCGGCC	AAAGAGGCCT	AGCACCATGG	ACAACCCACA	GGCTCTGCCA	CTCTTCCTAC	60
TCCTGGGGAT	CCTCACCCTC	AGAGCCTCTT	CTGGACTTCA	GCAAACCAAC	TTCTCCTCTG	120
CCTTCTCTTC	AGACTCAAAG	AGCTCTTCCC	AGGGGCTGGG	TGTGGAAGTT	CCCTCCATCA	180
AACCTCCCAG	CTGGAAAGTT	CCAGATCAGT	TCCTGGATTC	AAAAGCCTCT	GCTGGAATCT	240
CTGATTCCAG	CTGGTTTCCT	GAGGCCCTGA	GTTCCAACAT	GTCTGGGTCC	TTCTGGTCAA	300
Δησητησησο	TGAGGGCCAA	GATTTGAGCC	CGGTTTCCCC	CTTCTCTGAA	ACCCCTGGTT	360

CTGAAGTATT TCCTGATATT TCGGATCCTC AAGTTCCTGC CAAAGACCCC AAGCCTTCCT 420
TCACTGTTAA GACCCCAGCT TCAAACATTT CTACTCAAGT CTCCCATCTC CTCGAG 476

- (2) INFORMATION FOR SEQ ID NO:1343:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 726 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

GAATTCGCGG	CCGCGTCGAC	CAGGAAATGA	AGACATTGCC	TGCCATGCTT	GGAACTGGGA	60
AATTATTTTG	GGTCTTCTTC	TTAATCCCAT	ATCTGGACAT	CTGGAACATC	CATGGGAAAG	120
AATCATGTGA	TGTACAGCTT	TATATAAAGA	GACAATCTGA	ACACTCCATC	TTAGCAGGAG	180
ATCCCTTTGA	ACTAGAATGC	CCTGTGAAAT	ACTGTGCTAA	CAGGCCTCAT	GTGACTTGGT	240
GCAAGCTCAA	TGGAACAACA	TGTGTAAAAC	TTGAAGATAG	ACAAACAAGT	TGGAAGGAAG	300
AGAAGAACAT	TTCATTTTTC	ATTCTACATT	TTGAACCAGT	GCTTCCTAAT	GACAATGGGN	360
TCATACCGCT	GTTCTGCAAA	TTTTCAGTCT	AATCTCATTG	AAAGCCACTC	AACAACTCTT	420
TATGTGACAG	GAAAGCAAAA	TGAACTCTCT	GACACAGCAG	GAAGGGAAAT	TAACCTGGTT	480
GATGCTCACC	TTAAGAGTGA	GCAAACAGAA	GCAAGCACCA	GGCAAAATTC	CCAAGTACTG	540
CTATCAGAAA	CTGGAATTTA	TGATAATGAC	CCTGACCTTT	GTTTCAGGAT	GCAGGAAGGG	600
TCTGAAGTTT	ATTCTAATCC	ATGCCTGGAA	GAAAACAAAC	CAGGCATTGT	TTATGCTTCC	660
CTGAACCATT	CTGTCATTGG	ACTGAACTCA	AGACTGGCAA	GAAATGTAAA	AGAAGCACCA	720
CTCGAG						726

- (2) INFORMATION FOR SEQ ID NO:1344:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 484 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

GAATTCGGCC	AAAGAGGCCT	AGGGACAGCA	ATCAAGTTCT	AATGGTGCTC	ACTTTTTAGG	60
TCACCTTCAT	CACAGACTGC	TCCAAAGGCA	GAGCAATGTG	GAACGAACCA	GCACATTTAC	120
TTAAGATCAA	AGTATGATAC	ATCTCTTTGA	GCGCCTCACT	TCACAATAGG	GATCCATTCA	180
TTGGCTTCCA	GATGATGTTC	ACAGTTCATG	TAACACTGAT	ACTGACTTTG	TTCCTTATGT	240
TTAGACAGCT	TCTCTGTCTA	TACTTCTCAG	AAACAÇCATC	AACCAGAACA	GAGCCACTTA	300
TTATCCACAA	AAGTTGCATC	AACCAGCTTA	CCTTCTGGGA	GGGATGGATG	GTACCCAAAT	360
ACTCAAACTG	AATCCTATAG	TGTGGAGCAA	CCAAACAGAA	AACAGTCCAA	GGATTCAGGA	420
AATGGTAAAA	ACATTTTAAA	TCTAAATAGT	AGTTATTTTC	ATTTTGTTCT	GCTCCCACCT	480
CGAG						484

- (2) INFORMATION FOR SEQ ID NO:1345:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 125 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTCGCGG CCGCGTCGAC	ATGAGTTTAA	TTTTTTTTT	TTTTTTTACA	CTTTACATAG	60
AAATAGGATT ATGTGGGCTG	GGCACAGGGA	CTGACGCCTG	TAATCCCAGC	ACGTGGAGGC	120
TCGAG					125

- (2) INFORMATION FOR SEQ ID NO:1346:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 760 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

${\tt GAATTCGGCC}$	AAAGAGGCCT	AGACCCAGCG	TACATACTGA	ATGATCTCTA	CATCTCAGAC	60
TACTGTGTGT	GGATTCAGAA	AGTCAAATCC	AAAAAGTTGG	CAGCTCTTGC	AGAAGCCTTA	120
AAGGAAGTCT	CCCTTACAAA	GGCCCAGCTG	GGGTTAGAAC	TGGAAGAACT	AGAAGCAGCA	180
GCACTGCTTG	TCCAGGAGGA	AGAAACTGCA	TTAAAAGCAG	CCCATTCAGT	TTCTGGGCAG	240
CAGACACTTT	GCTCCAGCTC	TGAGGCAAGT	GATTCGGAGG	ACTCAGACAG	CAGCGTGTCA	300
TCTGGAAACG	AAGACTCAGG	CTCAGATTCA	GAACAAGATG	AACTCAAAGA	TAGTCCATCT	360
${\tt GAGACAGTCA}$	${\tt GTTCTTTGCA}$	AGGTCCCTTT	CTTGAAGAAA	GCAGTGCCTT	TCTTATTGTT	420
GATGGTGGAG	TACGCAGAAA	CACAGCCATC	CAGGAGTCTG	ATGCCAGTCA	GGGAAAGCCA	480
CTTGCCTCTT	CCTGGCCTCT	TGGAGTGTCT	${\tt GGGCCTCTGA}$	TAGAGGAGCT	TGGGGAACAA	540
CTGAAGACTA	CAGTTCAGGT	TTCTGAACCC	AAGGGCACCA	CTGCTGTAAA	CCGCAGCAAT	600
ATTCAGGAGA	GAGACGGCTG	TCAGACACCA	AATAATTGAC	TCTTAGGTGG	TTTTATTCAT	660
TGTTGAGAAA	TATGGTAGAT	TGGGTTTCAT	TTACCGAATG	AGAATTCTTC	ATTTTCACTT	720
TGTAATTTTT	CTTAGTATAT	AGTCAGCCCA	CACTCTCGAG			760

- (2) INFORMATION FOR SEQ ID NO:1347:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

GAATTCGCGG	CCGCGTCGAC	CATTTCGAGA	GTCCGTCTTG	TAAATGTTTG	GCACTTTGCT	60
ACTTTATTGC	TTCTTTCTGG	CGACAGTTCC	AGCACTCGCC	GAGACCGGCG	GAGAAAGGCA	120
GCTGAGCCCG	GAGAAGAGCG	AAATATGGGG	ACCCGGGCTA	AAAGCAGACG	TCGTCCTTCC	180
CGCCCGCTAT	TTCTATATTC	AGGCAGTGGA	TACATCAGGG	AATAAATTCA	CATCTTCTCC	240
AGGCGAAAAG	GTCTTCCAGG	TGAAAGTCTC	AGCACCAGAG	GAGCAATTCA	CTAGAGTTGG	300
AGTCCAGGTT	TTAGACCGAA	AAGATGGGTC	CTTCATAGTA	AGATACCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:1348:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 251 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

GAATTCGCGG	CCGCGTCGAC	TCTAGGTTTT	CTGATTTTGA	TGGTAATATG	GTATTCTGGG	60
AAATATCTGT	CCAAATTATC	CTGATCTCTG	AACTCCTGCT	${\tt GTTGAGGTCA}$	GTCACTTCAC	120
ACAATACCAT	GATGACAGCT	TTATCAAGCC	AGATGCTTAG	TCAGAGCTTT	CCAAGACCCA	180
GCTTTGGTTT	TATCAGCAAA	ATCCATCCTT	CCCACCCCCC	ATACACACGC	CAGTTTGAGA	240
CTCCTCTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:1349:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCGCGG	CCGCGTCGAC	CTAAACCGTC	GATTGAATTC	TGGACCTCCT	GTGCAAGAAC	60
ATGAACCATC	TGTGGTTCTT	CCTTCTCCTG	GTGGCAGCTC	CCAGATGGGT	CCTGTCCCAG	120
GTGCAGGTGC	AGCAGTCGGG	CCCTAGACAG	GTGAAGCCTT	CGGAGACCCT	GTCCCTCAGT	180
TGTACTGTCT	CTCTCGGCGC	CATGAATGGT	CATTACTGGA	CCTGGATCCG	GCAGACCCCG	240
GGAGGGAGAC	TGGAGTGGAT	TGGATCTGTC	TATTATAATG	GAAACAGAGT	GTATCACCCC	300
TCCCTCGAG						309

- (2) INFORMATION FOR SEQ ID NO:1350:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 553 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCGCGG CCGC	CGTCGAC AATTACTAC	ATTGTTAAGT	GTCTCTTTAA	CTAAACTCAT	60
TGTTTAAAAG TTTT	CTCCCT CTCTGTTTCT	AAATCCAAAT	TTCTGCTCTG	GAATATATGT	120
TAGAAGAGAT ACAT	TTTGTTG GAATGTTTG	ATTTCTTTTA	TGAAATGCAG	TATCTTTTGG	180
GGAATATTAT GTA	AATGAAA TACCAATTAT	TTTAAAAAGAG	CATTTTTGTG	TGACATAGTG	240
CTTTCACAAA CTAA	AAACTGG AATTTCTTTC	TTTAGTCTAT	CTATATCTTT	TGAAAATGTT	300
GACACAGCTA AGAA	AGAAGCT GCCTGTTCAT	ATCTTAGATG	GTCTGACCCT	CAGCTACAAG	360
GTATATGCTG ATAT	ITCCTTG TATGAACCGT	GTTTTCTGCT	AACATTAAAA	CATGCAAGTA	420
ATTGGTTACT TTCT	FAATTT GTTTTGTT	CATAGGTCCC	ATGGCCCGTG	GACATTGTTA	480
TAAGTTTGGA ATGT	CAAAAA ATTTATAATO	AAGTGTTTCT	TCTCTTATTG	CAAATAAAGT	540
GGGCATCCTC GAG					553

- (2) INFORMATION FOR SEQ ID NO:1351:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 209 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

GAATTCGCGG CCGCGTCGAC	TTTATTTCAG	TGGATTCTCT	AGGATTTTCT	ATATAAAAGA	60
TGTCATCTGA TAGAGTAGTT	TACTTCTTCG	TTTCCAACCT	GAATGGCTTT	TATTTCATCT	120
CTTTCCTAAC TGTCCTGGCT	AGAACCTCCT	TTACCACGTT	GAATGGAAGT	GGCAAGAATG	180
AACATCCTTG TCTTGTTTCT	GATTTCGAG				209

- (2) INFORMATION FOR SEQ ID NO:1352:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 525 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

GAATTCGCGG	CCGCGTCGAC	AATGGCTTTT	CTTCCTTCCT	GGGTTTGTGT	ACTAGTTGGT	60
TCCTTTTCTG	CTTCCTTAGC	AGGGACTTCC	AATCTCTCAG	AGACAGAGCC	CCCTCTGTGG	120
AAGGAGAGTC	CTGGTCAGCT	CAGTGACTAC	AGGGTGGAGA	ACAGCATGTA	CATTATTAAT	180
CCCTGGGTAT	ACCTTGAGAG	AATGGGGATG	TATAAAATCA	TATTGAATCA	GACAGCCAGG	240
TATTTTGCAA	AATTTGCACC	AGATAATGAA	CAGAATATTT	TATGGGGGTT	GCCTCTGCAG	300
TATGGCTGGC	AATATAGGAC	AGGCAGATTA	GCTGATCCAA	CCCGAAGGAC	AAACTGTGGC	360
TATGAATCTG	GAGATCATAT	GTGCATCTCT	GTGGACAGTT	GGTGGGCTGA	TTTGAATTAT	420
${\tt TTTCTGTCTT}$	CATTACCCTT	TCTTGCTGCG	GTTGATTCTG	GTGTAATGGG	GATATCATCA	480
GACCAAGTCA	GGCTTTTGCC	CCCACCCAAG	AATGAGAGGC	TCGAG		525

- (2) INFORMATION FOR SEQ ID NO:1353:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

GAATTCGGCC	TTCATGGCCT	AGGCTCCTAA	AATAAATAAT	CCACATAATT	GTAAATGAAA	60
CACATCAAGG	ATTTGAGTTA	ATAGCCTCTG	AGCAGCATTA	ATATAGCCAT	TAGACTGGAG	120
TATTTGTTAT	CAAGAGGGCC	AGAGAACCCA	CCGCTAAAGC	CGTAGGGTGG	GAGGAACCCT	180
GGATTGCAGC	TACATGGCTT	ATGTAGGGAG	TTTGTAACAG	CCCCAAGCTG	AAACCAGCTT	240
CTACACCCAT	GACTGTTGAG	TGATTGAATT	CTAGACCTGC	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:1354:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 572 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

${\tt GAATTCGCGG}$	CCGCGTCGAC	CAACAAGAGC	ACTGGCCAAG	TCAGCTTCTT	CTGAGAGAGT	.60
CTCTAGAAGA	CATGATGCTA	CACTCAGCTT	TGGGTCTCTG	CCTCTTACTC	GTCACAGTTT	120
CTTCCAACCT	TGCCATTGCA	ATAAAAAAGG	AAAAGAGGCC	TCCTCAGACA	CTCTCAAGAG	180
GATGGGGAGA	TGACATCACT	TGGGTACAAA	CTTATGAAGA	AGGTCTCTTT	TATGCTCAAA	240
AAAGTAAGAA	GCCATTAATG	GTTATTCATC	ACCTGGAGGA	TTGTCAATAC	TCTCAAGCAC	300
TAAAGAAAGT	ATTTGCCCAA	AATGAAGAAA	TACAAGAAAT	GGCTCAGAAT	AAGTTCATCA	360
TGCTAAACCT	TATGCATGAA	ACCACTGATA	AGAATTTATC	ACCTGATGGG	CAATATGTGC	420
CTAGAATCAT	GTTTGTAGAC	CCTTCTTTAA	CAGTTAGAGC	TGACATAGCT	GGAAGATACT	480
CTAACAGATT	GTACACATAT	GAGCCTCGGG	ATTTACCCCT	ATTGATAGAA	AACATGAAGA	540
AAGCATTAAG	ACTTATTCAG	TCAGAACTCG	AG			572

- (2) INFORMATION FOR SEQ ID NO:1355:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 269 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCGCGG	CCGCGTCGAC	TGAAAAGTAG	GTTTTTGAAG	AGATATATTC	GAAATATATT	60
TTTTCACTTG	AAAAAAGTAA	AAATTTTTTT	CAAAAGCAAA	TAATTCAACT	CTAAAATTAT	120
ACTATTTCAA	CATTCTCATT	TATGTGAAAG	CATGTGATAA	ATTGTTGCTG	CGTCAGAGAT	180
ATGAGAAACT	CCTTTGCATT	AGGTGGGCAT	TATTCATAGA	CTTCTACATG	AAAGAGAAGA	240
GAAATAAAAG	ATGCACCAGG	ATTCTCGAG				269

- (2) INFORMATION FOR SEQ ID NO:1356:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 713 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

GAATTCGCGG	CCGCGTCGAA	CCCAGCAAAA	TGGGGATCTC	CACAGTCATC	CTTGAAATGT	60
GTCTTTTATG	GGGACAAGTT	CTATCTACAG	GTGGGTGGAT	CCCAAGGACT	ACAGACTACG	120
CTTCACTGAT	TCCCTCGGAG	GTGCCCTTGG	ATACAACTGT	AGCAGAAGGT	TCTCCATTTC	180
CCTCGGAGTT	GACCCTGGAG	TCAACTGTAG	CAGAAGGTTC	TCCGATTTCC	TTGGAGTCAA	240
CCCTGGAGTC	AACTGTAGCA	GAAGGTTCTC	TGATTCCCTC	AGAGTCAACC	CTGGAGTCAA	300
CTGTAGCAGA	AGGATCTGAT	TCTGGTTTGG	CCCTGAGGCT	${\tt GGTGAATGGA}$	GATGGCAGGT	360
GTCAGGGCCG	AGTGGAGATC	CTATACCGAG	GCTCCTGGGG	CACCGTGTGT	GATGACAGCT	420
GGGACACCAA	TGATGCCAAC	GTGGTCTGTA	GGCAGCTGGG	TTGTGGCTGG	GCCATGTCAG	480
CTCCAGGAAA	TGCCTGGTTT	GGCCAGGGCT	CAGGACCCAT	TGCCCTGGAT	GATGTGCGCT	540
GCTCAGGACA	CGAATCCTAC	CTGTGGAGCT	GCCCCCACAA	TGGCTGGCTC	TCCCATAACT	600
GTGGCCATGG	TGAAGATGCT	GGTGTTATCT	GCTCAGCTGC	CCAGCCTCAG	TCAACACTCA	660
GGCCAGAAAG	${\tt TTGGCCTGTC}$	AGGATATCAC	CACCTGTACC	CACTAGACTC	GAG	713

- (2) INFORMATION FOR SEQ ID NO:1357:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 925 base pairs
- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GAATTCGGCC	AAAGAGGCCT	AGAATAATGC	ATATACTGCC	ATGTCAGATT	CCTACTTACC	60
CAGTTACTAC	AGTCCCTCCA	TTGGCTTCTC	CTATTCTTTG	GGTGAAGCTG	CTTGGTCTAC	120
GGGGGGTGAC	ACAGCCATGC	CCTACTTAAC	TTCTTATGGA	CAGCTGAGCA	ACGGAGAGCC	1.80
CCACTTCCTA	CCAGATGCAA	TGTTTGGGCA	ACCAGGAGCC	CTAGGTAGCA	CTCCATTTCT	240
TGGTCAGCAT	GGTTTTAATT	TCTTTCCCAG	TGGGATTGAC	TTCTCAGCAT	GGGGAAATAA	300
CAGTTCTCAG	GGACAGTCTA	CTCAGAGCTC	TGGATATAGT	AGCAATTATG	CTTATGCACC	360
TAGCTCCTTA	GGTGGAGCCA	TGATTGATGG	ACAGTCAGCT	TTTGCCAATG	AGACCCTCAA	420
TAAGGCTCCT	GGCATGAATA	CTATAGACCA	AGGGATGGCA	NCACTGAAGT	TGGGTAGCAC	480
AGAAGTTGCA	AGCAATGTTC	CAAAAGTTGT	AGGTTCTGCT	GTTGGTAGCG	GGTCCATTAC	540
TAGTAACATC	GTGGCTTCCA	ATAGTTTGCC	TCCAGCCACC	ATTGCTCCTC	CAAAACCAGC	600
ATCTTGGGCT	GATATTGCTA	GCAAGCCTGC	AAAACAGCAA	CCTAAACTGA	AGACCAAGAA	660
TGGCATTGCA	GGGTCAAGTC	TTCCGCCACC	CCCGATAAAG	CATAACATGG	ATATTGGAAC	720
TTGGGATAAC	AAGGGTCCCG	TTGCAAAAGC	CCCCTCACAG	GCTTTGGTTC	AGAATATAGG	780
TCAGCCAACC	CAGGGGTCTC	CTCAGCCTGT	AGGTCAGCAG	GCTAACAATA	GCCCACCAGT	840
GGCTCAGGCA	TCAGTAGGGC	AACAGACACA	GCCATTGCCT	CCACCTCCAC	CACAGCCTGC	900
CCAGCTTTCA	GTCCAGCAAC	TCGAG				925

- (2) INFORMATION FOR SEQ ID NO:1358:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 172 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

GAATTCGCGG	CCGCGTCGAC	AAATAAACCC	AGCAACTTCA	TTCATTTGCC	TTATGTTTAT	60
TGAGGGCCTG	CTAGTGCTGG	GCACTGTTCT	AGGCCCTGGG	AATTTATTAG	TGAGCAAAAC	120
AGCAAAATCT	CTGTCCTCAT	GGAGCTCACA	ATATAGTAGG	GAACGACTCG	AG	172

- (2) INFORMATION FOR SEQ ID NO:1359:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 770 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

GAATTCGGCC	AAAGAGGCCT	AAGTCAGTGA	GGTGGAGTCC	GTTTTTGAGG	TCACGCGGCT	60
AGTAATTGGA	GCCTGGTTTA	GAACCAAGTC	AGTCTCATTC	CAGAATCCAG	AACCAGTGAT	120
TTGTAACTGA	TGCACTTGTC	TCCAAAGGGA	TCCAGCACTG	GGTTTTCTCA	TTTTTAATGC	180
ATCCATTCCT	TAAAGCCTCT	GTTCACAGTC	ACAAGGTGTA	CTTTTTAAAG	GAACACAGCA	240
CACAAATGTG	ACCGCTAGTG	GACAGCAGTG	GCAGCCCAGT	TGGATGGCAG	AGCCTGGCAT	300

GCCGACTGGG	ACAGAAGCCC	CAGCACACGG	TGTGATGATG	GCGTCTCCAG	GCTGACCTCC	360
ATGGCCTCAG	GAATCAAAGT	CCTCGGTCTC	TTTCACGCGG	GGTTCAGAAA	GAAAACTCGG	420
CTATCTTACA	TCTCCTCTCC	CCTGTTTATT	TGACTAAAGT	GAAGTTCATG	TGGCTTGAGC	480
CTCGTTTCCT	GGGGAAATCA	GCCTGGCTTA	GGATTCCATT	GTCTTCTGGG	ACTGGGAAGA	540
TGTGGAAGGC	TGACCTCACG	CCCAGCTGAA	GGTCACCTTC	CCAGACTCTG	AGCTCGGCTG	600
CCTTCTGCAT	CGCCACGGCT	GGAGGGCCTG	GCCCAGGCCG	TGGCTGCATG	CTGGCTTTCC	660
ACTGTCTCGG	TGTCCCTGCT	GCCTGTCAGT	AATGTGCCCA	GCACCTTCTG	GTGTCATGTC	720
CCCTCTTGTT	TGTGATTCTT	TTCCTGAGCT	AGTCCATTTT	CTACCTCGAG		770

- (2) INFORMATION FOR SEQ ID NO:1360:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 505 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

GAATTCGGCC	AAAGAGGCCT	ACTCAGTGGA	AACCTTTAAA	CCCTAAAATC	CAGGAAAAGA	60
AAATAAATAC	ATTATCATGG	ACCTGAGGGA	TTTTTACCTG	TTGGCTGCTC	TGATTGCCTG	120
TTTAAGGCTG	GATTCCGCAA	TAGCTCAAGA	ACTTATTTAC	ACTATTAGAG	AGGAATTGCC	180
TGAAAATGTG	CCCATAGGAA	ACATACCAAA	GGATCTGAAC	ATTTCTCACA	TCAATGCTGC	240
CACAGGGACC	AGCGCCAGCC	TTGTCTACAG	ACTGGTTTCT	AAAGCTGGGG	ATGCCCCTTT	300
GGTGAAAGTA	TCCAGCAGCA	CTGGGGAAAT	TTTCACAACC	TCCAACAGAA	TAGACAGAGA	360
AAAACTCTGT	GCTGGCGCCT	CATATGCTGA	GGAGAATGAG	TGTTTCTTTG	AACTTGAGGT	420
GGTGATCCTC	CCCAATGATT	TCTTCAGGCT	GATCAAAATA	AAAATAATTG	TCAAGGATAC	480
CAATGATAAT	GCCCCCAATC	TCGAG				505

- (2) INFORMATION FOR SEQ ID NO:1361:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 553 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

GAATTCGGCC	AAAGAGGCCT	AAATTTGTTC	TCTCCAAACC	AGAAGACCTT	AGGTACAGAT	60
GACCCCAGGG	AGCTGGGACA	GCAGGACAGA	NAGGGGAAGG	GACAGGTCCA	TATATAGGTG	120
TGTCATTGCA	GCCACTGCAA	TGAACATAAC	ATGCAAGAAA	TGTACAGAAT	GTGGTCCAGA	180
ATTGCCCACT	GGTGTCCTGT	GCCCTGGTGG	ACCCCACAGA	GGACTGCCCC	AGGCTTTCAC	240
TTTCCTTCCC	CATGGATTGA	GCAAGCTCCC	AGGGCAGGAT	GGGTGGCCAG	GAGGGGCAGA	300
ACGCTGGCGG	GGACGGGGAA	GCCAAGTGCT	CACAGGACCA	TCCACCACAG	CTGCAGCCAC	360
ACTGCAAGAC	GGCGGGGATG	GGACACACGG	TCTAGTTCTT	AGTTCTGCCT	CCTACAGGCA	420
GCCCCTGCTG	TCACTCCAGA	ACTAATTCTC	TGTGTGCCAC	TCACTCGCGT	GTGTGACACA	480
CAACAGATAC	ACATACATAG	ACACATACGT	ACATCTCCTC	CCCCAATCTC	ACCCTCTCAC	540
CACGCCCCTC	GAG					553

- (2) INFORMATION FOR SEQ ID NO:1362:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 855 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

GAATTCGGCC	AAAGAAGCCT	AGTCAACTTG	ATCCAAACCT	GTTGGTGAAG	CAGCAGACTC	60
CACCATCTCA	GCAGCAGCCA	CTCCATCAGC	CAGCCATGAA	GTCTTTCCTT	GACAATGTCA	120
TGCCCCACAC	TACACCTGAG	CTGCAAAAAG	GGCCATCACC	AATAAATGCT	TTCAGCAACT	180
TCCCTATAGG	CTTGAACTCA	AACTTGAATG	TAAATATGGA	TATGAACAGT	ATTAAAGAGC	240
CACAGTCCAG	ACTAAGGAAG	TGGACGACAG	TGGACAGCAT	TTCTGTGAAC	ACATCTTTGG	300
ATCAAAACTC	CAGCAAACAT	GGTGCTATTT	CAAGTGGTTT	CAGGCTGGAA	GAGTCTCCAT	360
TTGTNCCCTA	TGACTTTATG	AACAGCAGTA	CTTCACCAGC	CAGTCCTCCA	GGTTCAATAG	420
GAGATGGCTG	GCCACGTGCC	AAATCGCCTA	ACGGCTCTAG	CAGTGTTAAT	TGGCCACCAG	480
AATTTCGTCC	CTGGTGAGCC	ATGGAAAGGT	TATCCAAACA	TTGACCCTGA	AACTGACCCT	540
TACGTCACTC	CTGGCAGTGT	CATAAACAAT	CTTTCAATTA	ATACTGTGCG	GGAAGTTGAC	600
CACCTCAGGG	ACAGGAACAG	TGGGTCATCC	TCATCCTTGA	ACACCACGCT	GCCTTCAACT	660
AGTGCCTGGT	$\mathtt{CATCCAT}^\intercal\mathtt{CG}$	TGCCTCCAAC	TACAACGTTC	CCCTCAGCAG	TACAGCACAA	720
AGCACTTCAG	CCAGAAATAG	TGATTCCAAA	TIGACATGGT	CTCCTGGTTC	AGTTACAAAC	780
ACCTCTCTGG	CTCATGAGCT	GTGGAAGGTC	CCTTTGCCAC	CTAAAAACAT	CACTGCTCCG	840
TCCCGCCACC	TCGAG					855

- (2) INFORMATION FOR SEQ ID NO:1363:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 646 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

GAATTCGGCC AAAGAGGCCT	ACAAAAAGTA	CATAGTAAGA	CTAAGATACC	AAGTTGTATA	60
CTAATATTTT TCAGGCCTTG	GGCCTCAAAT	ATATATATTT	ATATATAATA	CTCCAGTGTG	120
AACAGCAATT CGATGAAATG	TAAAATGTAT	CTTTTTTTTT	TTAAATCACA	CACAAGTATT	180
CATAACCACA GGGTTCACCA					240
AGTTACTCTT CCACAGATCG	TTCTGATCAA	AGGTTTTGGA	ACAGAAATGA	ATTAATGATT	300
TTTTTGTATA ATATCCAACA	TGTCCACTAT	CAAATACATT	TAGTATGAAA	AAACAGATGA	360
AGAAAAGGAA CATACATTAG	GACAAAGTAT	CTGGTTAAAA	TGCTGTTCAT	TTAAATAAAG	420
CCCACTCTCC TTACTTTAGA	GCTCCTTGGT	GAAATGGAGG	TGAGTTTGAT	GGAGTGCAGT	480
TGATGACCAC TGAAAAACAC					540
TTAAACACAC ACACACACTC	ACAAATGCTA	AGTGTACACT	ACCAAATTCT	GCGGTCAGCT	600
TTTCCAAGAA CTACTGGGGA	AAGTTTCAAT	GCTGCAAATC	CTCGAG		646

- (2) INFORMATION FOR SEQ ID NO:1364:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 502 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

GTAAACCATC AGTACAATAA TACGCTGTGT ATGTATGTGT ATATAAAATG AGAATTATGG	120
CATAATTGGA GCATTTGCAT TAATCAACAA ACTCACATTG AGACAAAACT TAGTTTTACA	180
GCTGTCTTGA TTAAAGCCAA GTGTTCCATG TTGCTGTGAA GAATAGCCTC TTTCAAATAC	240
TTTGGAAAGT AGTTACTTGG AAACTTGTAA AGGTATTACA TTTTTATATT TAAACACCTA	300
TAGAGATCTT CAATTCCTTG AGTCTGAGCT TGTGGGTGGA ATTCTAAATT TGTATCATAA	360
TCTGTCTTTT GTGAAACATT TTGAAAATAT GTATATATAA TATTGTATAT GCAAATTGTG	420
TTGTTTCACT TGTAAAGGGA AAAGGCTTAT TTTTCTTTAT ATTTCTGATA ACTTGTTTTG	480
CATATGACCG GCACTTCTCG AG	502
(2) INFORMATION FOR SEQ ID NO:1365:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 197 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(==,	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:	
GAATTCGGCC TTCATGGCCT ACAGAAGTAC GGGAAGGCGA AGAAAAGAAT AGAGAAGATA	60
GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAAA GATAAATTTA AACCTGAAAA	120
GTAGGAAGCA GAAGAAAAAA GACAAGCTAG GAAACAAAAA GCTAAGGGCA TCGATTGAAT	180
TCTAGACCTG CCTCGAG	197
10110110010 00100110	
(2) INFORMATION FOR SEQ ID NO:1366:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 314 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(D) ADE WHACE , TTOTAGE	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:	

(2) INFORMATION FOR SEQ ID NO:1367:

CAGCCTAACT CGAG

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 250 base pairs

GAATTCGGCC TTCATGGCT AGGCCTGGGG TGGGACATTT TGTTTGTGAG AAGCCTGGAC AAGAGGACGA GGTGCACACC ATGTCAGTCA CGGATTTGTG AACTCACAGG AGAGGGTTGG

ATAGGGCGTG TGAACGTGAG CCCGCGGTGT AGACGATGTG AAGCTGTGGT AACGGGTGGG

CTTGTGATGG CACCCGCTGC TCGCAGGAGA GGGTTGGATA GGGCATGTGA ACGTGAGGCCT GCAATGTAGA CGATGCGAAG TCGTGGTAAC GGGTGGGCTT GTGACGGCAC CCGCTGCTTG

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GAATTCGGCC TTCATGGCCT ACTGGTCCCA TTTTTCTATT GCAGTGGTCA TCATTTTAT

TGATGTATAA TAATATTGTA TCATAAATCT TCATAATATG TGCTTCCAAA GTTTTTTCTA

120

60

120

180 240

300

	AACCTTTGAT TTGGTATTTA ATTTTTAGTT GTCAGAAGTT TTTAATATTT AGCTATCAGG TTATTAAAAT TGACTTCTCA TTTAGACATA CTTAGGCCAT	180 240 250
(2) INFORMA	ATION FOR SEQ ID NO:1368:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1368:	
TACATCAGCT CTTGTGAATT ATAATAGTGT	TTCATGGCCT AGTGAGAGCA CCACACAAAG GACAGGAAAA ACACCAGCAA TTACACAGCA GGCAAGTTTC CTGCTCTCTA CAAGTACAGA TGGAACTTGT AACATCCTGA CTACTTTTGT TGATCATCAC ATTTTTTCCT CATGAGAGAA TTTATAGGCT CCTGAGAATA GGTTTACTAA AGTCATCGAG ATCTGGGTTC TCATGCTCGA G	60 120 180 240 261
(2) INFORMA	ATION FOR SEQ ID NO:1369:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 408 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1369:	
GTTAGGAACC GGATATAGAT ACTGAGCAAT TTAACATACT TTTCACAAAT	TTCATGGCCT AGTTTTGTT TGTTTGTTTG TTTGTTTTT GGCAAGAACA AGATCACAGT GAGGTATAGA GTGAATGAGA GTTGAGAATG CACTATTTCA GGAAGCTGTT TGTGAGAGGG AGGAGAAAAA TAAAACAGTT AGGGTGGTTG GTAAGGGGGA GGGATTTTT TCTGAAAGAT GGGAGAAATT TAAATTTGAT GGGATAAGCC ATGCACTTAT AGGCATTCAG TCAATATATA GAATGAAGAT AAATTAGGGA GAGGTTAATT GGAGATTTTA GGAGAGAGGG CATGTAAAGT CATTGATAAG GTGGGAGCAG AACTCGAG	60 120 180 240 300 360 408
(2) INFORM	ATION FOR SEQ ID NO:1370:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 369 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1370:	
	TTCATGGCCT ACTCGATTAC AGGTCTCCCG CCTGCCATGC AGAAAGTCAT CTCGTCCCCG AGGATAAAAC ATTGAGAGAA ATAAAAGTGA CCAGTGGGGC	60 120

180 240

300

CAAGATCATG GTGGTTGGCT CCACCATCAA TGATGTTTTA GCAGTAAACA CACCCAAAGA

TGCTGCGCAG CAGGATGCAA AGGCCGAAGA GAACAAGAAG GAGCCTCTCT GCAGGCAGAA ACAACACAGG AAAGTGTTGG ATAAAGGAAA ACCTGAAGAT GTGATGCCAT CTGTTAAGGG

GGCCCAGGAG CGCCTGCCAA CGGTACCGCT GTCCGGCATG TACAATAAAT CTGGAGGAAA 360 369 AGTCTCGAG (2) INFORMATION FOR SEQ ID NO:1371: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 443 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371: 60 GAATTCGGCC AAAGAGGCCT ATTTTTTTT TTTTTAACTG ATAGATGGTG CAGCATGTCT ACATGGTTGT TTGTTGCTAA ACTTTATATA ATGTGTGGTT TCAATTCAGC TTGAAAAATA 120 ATCTCACTAC ATGTAGCAGT ACATTATATG TACATTATAT GTAATGTTAG TATTTCTGCT 180 TTGAATCCTT GATATTGCAA TGGAATTCCT ACTTTATTAA ATGTATTTGA TATGCTAGTT 240 ATTGTGTGCG ATTTAAACTT TTTTTGCTTT CTCCCTNTTT TTGGTTGTGC GCTTTCTTTT 300 ACAACAAGCC TCTAGAAACA GATAGTTTCT GAGAATTACT GAGCTATGTT TGTAATGCAG 360 ATGTACTTAG GGAGTATGTA AAATAATCAT TTTAACAAAA GAAATAGATA TTTAAAATTT 420 443 AATACTAACT ATGGGATCTC GAG (2) INFORMATION FOR SEQ ID NO:1372: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 770 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372: GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GGAGCTGCTG GGCGCGGGAC CTGGGGCGGT 60 TAATTTGGAG TGGCCCCTGG AGTCAGTTTC CTACACCATC CGAGGCCCCA CCCAGCACGA 180 GCTACAGCCT CCACCAGGAG GGCCTGGAAC CCTCAGCCTG CACTTCCTCA ACCCTCAGGA AGCTCAGCGG TGGGCAGTCC TAGTCCGAGG TGCCACCGTG GAAGGACAGA ATGGCAGCAA 240 GAGCAACTCA CCACCAGCCT TGGGCCCAGA AGCATGCCCT GTCTCCCTGC CCAGTCCCCC 300 GGAAGCCTCC ACACTCAAGG GCCCTCCACC TGAGGCAGAT CTTCCTAGGA GCCCTGGAAA 360 CTTGACGGAG AGAGAAGAGC TGGCAGGGAG CCTGGCCCGG GCTATTGCAG GTGGAGACGA 420 GAAGGGGGCA GCCCAAGTGG CAGCCGTCCT GGCCCAGCAT CGTGTGGCCC TGAGTGTTCA 480 GCTTCAGGAG GCCTGCTTCC CACCTGGCCC CATCAGGCTG CAGGTCACAC TTGAAGACGC 540 600 TGCCTCTGCC GCATCCGCCG CGTCCTCTGC ACACGTTGCC CTGCAGGTCC ACCCCCACTG 660 CACTGTTGCA GCTCTCCAGG AGCAGGTGTT CTCAGAGCTC GGTTTCCCGC CAGCCGTGCA

- (2) INFORMATION FOR SEQ ID NO:1373:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 597 base pairs

TCGGCAGGAT GGGGACCCTG CTTTCCTCTA CTTGCTGTCA GCTCCTCGAG

ACGCTGGGTC ATCGGACGGT GCCTGTGTGT GCCTGAGCGC AGCCTTGCCT CTTACGGGGT

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA

720

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

GAATTCGGCC	AAAGAGGCCT	AGTCTCTTTG	AAGATCTCTA	GGAACTTGCT	TTATGAATCT	60
TCATGCTCCT	GTGTTGGATG	CATATACATT	TAGGATAGTT	AGGTGTTCTT	TTTGAATTGA	120
AACTTTTACC	ATTATGTAAT	GCCCTTGTTT	GTCTTTTAAA	ATTTTTGTTG	GTTTAATATC	180
TGTTTTGTCT	AAAATTAGAA	TTTCAGCCTC	TGCTTTTTT	CTGTTTTCCA	TTTGCTTAAT	240
AAATTTTTCT	TCATTCCCTT	ATTTTTAGCC	TATGGGTGTC	ATTGGATGTG	AGATTCATCT	300
CTTGAACACT	GTACTACTGG	TTCTTGCTTT	TTTACTCAGC	TTGTCACTCT	GTGTCTTTCA	360
ATTGGGCATT	CAAGGCTAGT	GTTGATATGT	GTGAATTTGT	TTCTGTCATC	ATGTTATTAG	420
TTGTTTATTA	TGCTGACTTG	TTTGTGTGGT	TTCNTTATAG	TGTTACTGGT	CTGTGCACTT	480
AAGTGTGTTT	TTTTAGTAGC	AATATTTTCT	TTTCATATGT	AGTGCTTTAT	GCGAGGTATT	540
TTGCAAGGAT	TTTCTGAATN	NTCNGAATTT	${\tt TTATGTGGGC}$	TAAACTAGGG	GCTCGAG	597

- (2) INFORMATION FOR SEQ ID NO:1374:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 459 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GAATTCGGCC AAAGAGGCCT	AGCCTCCCAG	TGTGAGCCAC	CGCACCCAGC	CTGGATTGTT	60
GAATTCAATG CTTGGGTCAC	CTCCAGATTC	ATTTTCACAG	TCTTTCATGT	TTTGGTCATA	120
TGACATTGTA TTTTGCTGCC	ATATGACTGA	TCTTTTTTTG	TTAAATGTGA	GATACTTGTT	180
AAAAAATGTT TAGCAATGAA	TTGAGGCCTA	GTAGCATGTT	ATCTTGCTGC	AGAAGAGATG	240
GGAGTCTACT TCTGGGGGAT	GGTCAGGGGT	CCTCCATACA	GGCTGCAATT	GAAGTCGTCG	300
GTGCAGGCTC AGTCCCTACA	AAGGCCAGGG	TATTTCCTGT	CCACCTTTAT	TCTGATGCAT	360
GACTCTTCTG GGTCTCAACC	AGAGCCAGTG	GACTTCAGTA	TGGGTCGCTT	TCATTGGCAG	420
ACCCTCAATC CACTTGTTTT	CCATCTAATC	CCACTCGAG			459

- (2) INFORMATION FOR SEQ ID NO:1375:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 531 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

GAATTCGGCC AAAGAGGCCT	AATGGATCTC	ATGTGCAAGA	AAATGAAGCA	CCTGTGGTTC	60
TTCCTCCTGC TGGTGGCGGC	TCCCAGATGG	GTCCTGTCCC	AGCTGCAGCT	GCGGGAGTCG	120
GGCCCAGGAC TGGTGAAGCC	TTCGGAGACC	CTGTCCCTCA	CCTGCTCTGT	CTCTGGTGGC	180
TCCATCAGCA GCAATAGTTA	CTCCTGGGGC	TGGATCCGCC	AGCCCCCAGG	GAAGGGGCTG	240
GAATGCATTG GGAGCATCTC	TTACAGTGGG	AGCACCTACC	TCACCCCGTC	CCTCAAGAGT	300
CGAGTCACCG TTTCCGTAGA	CCCGTCCAAG	AACCAGTTAT	CCCTGAGGCT	GAGCTCTGTG	360
ACCGCCGCAG ACACGGCTGT	GTATTATTGT	GCGGGGGGT	CTCCGGGCGA	TTATTCCTAT	420
GAGAATAGTG ATTACCCCGA	CCCCCCGTAC	TATTTAGACT	CCTGGGGCCG	GGGAACCCTG	480
GTCACCGTCT CCTCAGCTTC	CACCAAGGGC	CCATCCGTCT	TCCCCCTCGA	G	531

- (2) INFORMATION FOR SEQ ID NO:1376:
 - (i) SEQUENCE CHARACTERISTICS:

WO 98/45437		PCT/US98/06956	
	(A) LENGTH: 661 base pairs		
	(B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double		
	(D) TOPOLOGY: linear	•	
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:		
	GAATTCGGCC AAAGAGGCCT AATGACTCAG AAGAAAGAAG TTACTTTACG	ATTTTTGTTT	60
	ACACCATTTA AACTGCTTTC TGATTCCAAA CAGTTCAACA TTTTAAGAAA	AGCAAGATCT	120
	TATATAAAAC ACAGAAAGTT TGATGAAGTG GTCTCCCTTT GCAAGGAGCT	AATTCATCTT	180
	GCATTGAAAG GATTGTCCTA TTATCACACA TATGACAGAT TCTTTTTGGC	CGTCAATGTT	240
	GTTATTGGTT TTGTGGGATG GATATCTTAT GCCTCTTTGT TGATCATCAX	GTCTCATTCC	300
	AACCTTATAA AAGGTGTTAG TAAAGAAGTG AAGAAACCAA GCCATCTCCT	GCCTTGTAGT	360
	TTTGTAGCTA TTGGCATTTT AGTAGCATTT TTTCTGCTGA TTCAAGCCTC	TCCCTGGACA	420
	TATTATGTAT ATGGTTTGTT GCCACTGCCA ATATGGTATG CGGTTCTAAC		480
	GTTATTCAGG ACCTTGTTGT ATCAGTGTTG ACCTATCCTC TGAGCCATTT	TGTTGGGTAC	540
	CTGTTAGCCT TTACCCTGGG AATTGAAGTA TTAGTTCTCA GTTTTTTCTA		600
	CTTACCGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCGGCT	GTGGACTCGA	660
	G		661
	(2) INFORMATION FOR SEQ ID NO:1377:		
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:		
	GAATTCGCGG CCGCGTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA	ATGGACCCAA	60
	GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA		117
	(2) INFORMATION FOR SEQ ID NO:1378:		,
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:		
:	GAATTCGCGG CCGCGTCGAC CTTAAATTTA AAACTGGCCT GGTTTGCCT	r TTTTATCAAG	60
	AGAGCTTAAC AGATAAAAAA TGAAATTAGT CTATTTTCTA CTTGCCAGC	GTCTCGAG	118

550

(2) INFORMATION FOR SEQ ID NO:1379:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 229 base pairs
(B) TYPE: nucleic acid

(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:	
GAATTCGCGG CCGCGTCGAC ATTTTATATA ATATTTTAAA TAAGTTTGTG TACAAAACAA AGATTTGACT GCATTTGAT TGTGACCCCG TTGCATGAAG TCAGGTGTGG AGTTTTCCAC TTGTGGTATC ATGTTGCTGC TGCTCAAGAA GTTTCTGATT TTGGAACATT TTGGATTTTG GATTTTCACA TTGGGATAC CTAATGTGAG AGAGACTAGG CCACTCGAG	60 120 180 229
(2) INFORMATION FOR SEQ ID NO:1380:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:	
GAATTCGCGG CCGCGTCGAC GTTGGGGACA TGGTGGGTCT GAGAAAAGTG TTGCCCGCAA CTTTCTATCT GGCATTCCCT GCGAGGAAA TAGAATGCGC GCTCTCCGAC AGCATTTCCT GTAACATCCG CGAACTCGAG	60 120 140
(2) INFORMATION FOR SEQ ID NO:1381:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 99 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:	
GAATTCGCGG CCGCGTCGAC TCTCAGAAGA GGTTTGTTTA ACTTCTATAA ATACAACCAC TTCATGCGTT GGCATCTCCT TGAGAAAAGG CTTCTCGAG	60 99
(2) INFORMATION FOR SEQ ID NO:1382:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 442 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:	
GAATTCGGCC AAAGAGGCCT AGTTTAAGTG CTGTGGAGTA GTATATTTCA CTGACTGGTT GGAAATGACA GAGATGGACT GGCCCCCAGA TTCCTGCTGT GTTAGAGAAAT TCCCAGGATG TTCCAAACAG GCCCACCAGG AAGATCTCAG TGACCTTTAT CAAGAGGGTT GTGGGAAGAA AATGTATTCC TTTTTGAGAG GAACCAAACA ACTGCAGGTG CTGAGGTTTC TGGGAATCTC CATTGGGGTG ACACAAATCC TGGCCATGAT TCTCACCATT ACTCTGCTCT GGGCTCTGTA TTATGATAGA AGGGAGCCTG GGACAGACCA AATGATGTCC TTGAAGAATG ACAACTCTCA	60 120 180 240 300 360

	TGTCCCTCAG TAGAACTGTT GAAACCAAGC CTGTCAAGAA TCTTTGAACA GCAAACCTCG AG	420 442
(2) INFORM	ATION FOR SEQ ID NO:1383:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 501 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1383:	
GAATTCGGCC	AAAGAGGCCT ATTCAGGTGT TTTCATTTGG TGATCAGGAC TGAACAGAGA	60
	TGGAGTTTGG GCTGAGCTGG CTTTTTCTTG TGGCTATTTT AAAAGGTGTC	120
	TGCAGCTGTT GGAGTCTGGG GGAGGTTTAA TACAGCCTGG GGGGTCCCTG	180
	GTGCAGCCTC CGGGTTCATC TTTAGCAACT ATGCCGTGAG TTGGGTCCGC	240
	GGAAGGGGCT GGAGTGGGTC TCAAGTATAA GTGACATTGG TGACACCAGA	300
	ACTCCGTGAG GGGCCGATTC ACCATCTCCA GAGACAATTC CAAGAACATG	360
	ACATGAACAG CCTGAGAGCC GAGGATACGG CCGTGTATTA TTGTGCGGCA	420
	ATCATACTCG TGGCTATTAC TGGTACTACT TTGACTTCTG GGGCCAGGGA	480
	GCGATCTCGA G	501
(2) INFORM	ATION FOR SEQ ID NO:1384:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 634 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1384:	
GAATTCGGCC	AAAGAGGCCT ACTTCAATAT TCTGTTACGG GTTTTTTTAG TCTTTTTTC	60
TCTTTGCTTT	CCTGTGTTGG AATTTTCTAT TTCTATATAC TCAAGTTCAG AGATTCTTTC	120
CTTTTCCATA	TCCTGTCTAC TAGTGAGCCC ATCCAAGGCA TTGTTCATTT CTGTTACAGT	180
GTTTTGATCT	TTAGTATTTC TTTTTCATTC TTCATTACAC TTTCTCTCTG CTAACATTGC	240
CCATAAGTGC	TTATATGCTG TATACTTTAT CTGTTGATCA TATTTGTTTT AAATTCCTAA	300
TCTGATAATT	CAACATCTCT GACATGTCTG GTTCTGGTTC TGATACTTGT TGTCAAACTG	360
TGGTTTTTTT	TCTTTTAGAG TGGCTTTTAA TTTTCTTTTT GTTTTTTGTT TTTTTTTGG	420
ATAGTTGGAC	ATGACGTACT AGATAAAAGC AACTACTGTA AATAGACCTT TAGGAATGTG	480
GTGGTAAGAT	GTGAGAGGAA GAAAAGCATT CTGTAGTCCT GTTAGGTTTC AGTCTTTTAA	540
CCCATTTATG	CTTAGTGTTC TATTACTGGA ACGCTAGGCA TGTGGAAGTT ATTTATATCC	600
TACTGCTAAA	GGTTATCACC AAGCTGTACT CGAG	634
(2) INFORM	ATION FOR SEQ ID NO:1385:	

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 700 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

GGAAGAAAC TGAAGAAGAC TTCTGAAAAA AGAGGAAAG AGATGAAGAA AGGGGAAGAA GAAAGAAGAT AGATGGAAAA AAAAGAGAGA GAAAGAAGAT GAAAGAAGAT	AAAGAGGCCT ACTCAAGTTC AAGGAAAATG AAAGAAGAAAAAAAAAA	ACCAAGCAAG AAAATTACAG GAAGATGCCA GAAGAAGAAG AAAGGAGAAG GAGAGAAGAG GGAGAAGA	AAGCAGTTGT AGGCACCAGC CAGAAAAGGG ATCAGAAAGA AAGATGAAAA ATGCAAAAGA GAAAAGAAGA AAGAGAATGA AAGAAGATGA	60 120 180 240 300 360 420 480 540 600 700
(i)	ATION FOR SEQ ID NO:1386: SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TY7E: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
	MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:1	386:		
	CCGCGTCGAC CTTTAGTGTG TCTTTTCATT CAAAATTTTAA TTTTGATGAA ATCCAACTTA T			60 120 127
(2) INFORMA	ATION FOR SEQ ID NO:1387:			
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1	387:		
	CCGCGTCGAC CTCTGTTCAG TCGTTTTGCT C			60 120 128
(2) INFORMA	ATION FOR SEQ ID NO:1388:			
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 816 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

553

TCAGTGTTCT	GAATTTTGTC	CATTCTGATA	GGTGTGTAGA	GGTATCTTAT	AATTTTAATT	120
TGTGTTTCTC	TGATGCCATA	TGATGTGTGG	GACATCTTTT	CATATGCTGA	ATTGCCATCT	180
GTATATCTTT	GGTGAGGTGT	CTGTTAAGGT	TGTTGGCCAA	TTTTTTAATT	GGGTTGTTTG	240
TTTTCTTGTG	${\tt GAATTTTAAG}$	AGTTCCTTAC	ACTGTCTCTG	TCTGTCTTGT	CTGTCTGTCT	300
GTCTGTCTGT	NGAGACAGAG	CCTCGCTCTG	TCACCCAGGT	TGCAGTACAG	TGGCACAGTC	360
TTGGCTCCCT	${\tt GCAACCTCTG}$	CCACCTGGGT	TCAAGTGATT	CTCCTGCGTC	AGCCTCCCGA	420
GTAGCTGGGT	TTATACCCGT	GCACCACCAC	ACCTGGCTAA	TTTTTGTATT	TTTAGTAGAC	480
ACGGGGTTTC	ACTANGTTAG	CCAGGCTGGT	CTCGACCTCC	TGACCTCAGG	TGATCCACCC	540
ACCTTGGCCT	CCCAAAGTGC	TGGGANGNGA	GCCACCACAC	CCAGCCTCCT	TACACATTTT	600
AGTTAATAGT	${\tt TCTTTATCAG}$	ATGTGTCTTA	TGTAAATATT	TCCTCCCTAT	CTGTGGCTTG	660
TCTTTTCATA	CTCTTGACAT	TGTCTTTTGC	AAAAGACAAC	AATTTTTAAG	AAACAAGTAG	720
ACAATTTTAA	TGAAGTCTGG	CTTATCAGTT	CTTTTCTTCA	TGGTTGGTAC	CTTTGGTGCC	780
GTATCTAAAA	GTCATCACCA	AACCCAAGAA	CTCGAG			816

- (2) INFORMATION FOR SEQ ID NO:1389:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 163 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTCGCGG	CCGCGTCGAC	CTAAACCGTC	GATTGAATTC	TAGACGAACT	ATATGTTTAA	60
GCAAAAACAA	TAAAAAAAA	CCTCAAAAAA	AGTAATATCA	GAGTTTTAAT	TTCAACCAGC	120
TGGCACAACA	ATGAAAGTGT	CAGACTTTCT	GAAAGTACTC	GAG		163

- (2) INFORMATION FOR SEQ ID NO:1390:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

GAATTCGGCC	TTCATGGCCT	AAAACCCTCA	AAAATAAATT	AGAATCCAGC	ACTGCTACAA	60
TATATTATCT	AAAATGTCTA	ATTCTCAAAA	ATATGAGTGA	TGCAAAGAAA	CAGGAAACAG	120
TGAAACACAG	AGGAAAAAAC	AGTGACTAGA	AACTGACTTA	AGAGTAAGCC	CAGATGTATT	180
TGGGAGCCAG	AGCCTTCAAA	GTAGCTATTA	AATATGTTCG	AAAAAATTAA	GGGAAAATAT	240
GACAATGACT	CAAAAATAAG	GACTCTAAAT	ATAGAAATGG	GAGCTG		286

- (2) INFORMATION FOR SEQ ID NO:1391:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 392 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

PCT/US98/06956 WO 98/45437

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GAATTCGGCC TTCATGGCCT ACTTTAAGG GCTTGGAAGT TTCAAAACCA CAGTCTGCAT GTGACAGGTG CTCACTGCTG TTGGGTTGCC CGCTGGTTCT AGGCCTCTGC TGGAGTGTGT GATCTGCTTT CTGACGGCAG GGCGTTCACA TGGGTGTGCT TTAATCTTAC GTCTCCGTCC TCTTTTTCCA CTGACAGTGC TGGTCTCAAG GACAGTGGAG ATGAGAGAAT TGGAATATCG CATAATGTCT CATCTGTTT ATCTCTTGCT ACAAACATCA CAATCTCAAA ATAACAATGG CAGTACAACT GCCACCTATA TCATTACTGA AAACAGTGAA GATATTTTTT GCCTAAGTCT TCCCATTCTG TGTAGTTATG CAGAGTCTCG AG	60 120 180 240 300 360 392
(2) INFORMATION FOR SEQ ID NO:1392:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 286 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:	
GAATTCGGCC TTCATGGCCT AGTAATCTTT CCCCCCAGTT TTTGGATGAA GAAACTAACA CTGAAGGGGC GAGGTGGCCT CCCAGGCTCA GAGGGTGATT CAGAATCCAG GCCTGGTGTT CCTTCCACAG TACCAAAGCG CCACACATTA GTTGTCTTGT AGATTTTCCA CACTTCAGGG AGAATGCCAA AGTATCTTTG CCTTGCACAC ACTACCTGTT CAACACTCAG TGACGAGGGT GTCGTGTGTG CTCAGGCAAC TCCCGCCCTT CTTCCTTTTG CTCGAG	60 120 180 240 286
(2) INFORMATION FOR SEQ ID NO:1393:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:	
GAATTCGGCC TTCATGGCCT ACTGAGTTCT CAAATCTAAC GTTTTAGGAA TTTTTTATTC CTGCAGAGAG TTGGGGAGCT GTTTAAAAGT TGGTTGGTTT AGCCAGTATA GCTAGATTCC TCAAGGTCAA CACAACGCCA TACTGCTCTA GCTGGGGCTA GATTTCTCAT GATAGTCTAA ACTGTGTGAT GGCCAAGTCC CCACTTTGAA GATGTCCAAA TTCAGCCTCA GACATTTCTC CTCAAGAAAG GGGGGCAAA AAAGCCTTTT GTGCCCCTTT CCCAAATTAT TTGCTCATGT CGCAAGACTG AGGTCTCAAG	60 120 180 240 300 320
(2) INFORMATION FOR SEQ ID NO:1394:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 450 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:	
GAATTCGGCC TTCATGGCCT AACGCCATCT ACGACCTGAT CGAGCGCATC GAGGATTTGG CGCTGCAGAA CCAGATCCGG GAGCACGTCA TCTCCATCGA GGACTCGTTT GTGAACAGCC	60 120

AGGAGTGGAC GCTGAGCCGC TCCGTACCGG AGCTTAAAGT GGGCATAGTG GGGAACCTGT	180
CTAGCGGGAA GTCAGCCCTG GTGCACCGCT ATCTGACGGG GACCTATGTC CAGGAGGAGT	240
CCCCTGAAGG GGGGCGGTTT AAGAAGGAGA TTGTGGTGGA TGGCCAGAGT TACCTGCTGC	300
TGATCCGAGA TGAAGGAGGC CCCCCTGAGC TCCAGTTTGC TGCCTGGGTG GATGCAGTGG	360
TGTTTGTGTT CAGCCTGGAG GATGAAATCA GTTTCCAGAC GGTGTACAAC TACTTCCTGC	420
GTCTCTGCAG CTTCCGCAAC ACCCCTCGAG	450
(2) INFORMATION FOR SEQ ID NO:1395:	
(+) OPOURNOR CHARACRER TOWARD	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(wi) CROHENCE DECCRIPATION, GROUND NO. 1205	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:	
GAATTCGGCC TTCATGGCCT ACCGTCATTC ATTGCAGGGA CCATCAAACC CCAGACAATC	60
CTATTTTGGT GGGAAATCTA GCAGATAGAG AAGCCAAACA AGTAGCCCTA CAACCTGTAC	120
AAGGCCAGTT TCTGTGCCTG TCCTCGTTCT CTCCTCTTTA CTCTCCAGAA GAAAAGGAGG	180
ACTACCAAGC CCAAAACCTT CAAAAACAAG GACCATGGTA TGTCAAGGAA GGGTGCTTCC	240
TTCTTCCTCA CTCTCAAACA ATCTCTATCC TTCGAG	276
(2) INFORMATION FOR SEQ ID NO:1396:	*
· · ·	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 241 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:	
GAATTCGGCC TTCATGGCCT AGGGGGCGGG GGGCGGGGCG	60
ACTCTTTGAA AACTAAATAG TTTAAAATCT CATCCAACTT CCACCTAACT TACATGCCTG	120
GTTAACCGAC ACTCTGTATA TCCTGTATAA AACATTCTAA CTGATGCCCA CGACATACTA	180
TTGGCTGATG GTTTTGCTAG TATACAGTAT GGCCACTTAC TGCCATTCCC ATGCCCTCGA	240
G ·	241
(a) Typopharton FOR GEO ID NO 1307	
(2) INFORMATION FOR SEQ ID NO:1397:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 314 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(b) Torobodi. Illical	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:	
GAATTCGGCC TTCATGGCCT AGAAAATGAA GAAGAAGATC ATCAAGGACC AGAAACTGCT	60
TGTGATCGTG GGGGGCATGC TGCTGATCGA CCTGTGTATC CTGATCTGCT GGCAGGCTGT	120
GGACCCCCTG CGAAGGACAG TGGAGAAGTA CAGCATGGAG CCGGACCCAG CAGGACGGGA	180

CCGCAACTCT CGAG

(2) INFORMATION FOR SEQ ID NO:1398:

CATCGTCTAT GCCTACAAGG GACTTCTCAT GTTGTTCGGT TGTTTCTTAG CTTGGGAGAC

300

314

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:	
GAATTCGGCC TTCATGGCCT AGTGCACACC AAGAACCAAG TTTCAGCTTG GTTACTGTGT TGAAGACACC TTTGCTATAT TTCAAGTCAT TCCTTCTTTT CTCAATTTTT TTTAATTGAC AAAAATTTTA TATATCGTGT ACAACATCAA TCCATCTTGG CATCTGTATT TGTCAGGGTT GTCTTAGAGG GACAGAACTA ATAGGATATA TATAAGGGGG AGTTTATTAA GTATTAACTT ATATAATCAC AGGGTCCCAC AACAGGCTGT CTGCAAGTTG AAGAGCAAGG AGAGCCAGTC AGAGTGCCGA AACTGAAGAA CCTGGAGTCC GATGTTCTCG AG (2) INFORMATION FOR SEQ ID NO:1399:	60 120 180 240 300 342
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 614 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:	
AGCACCATGC TECATGGCCT AGGGCCATGT TGGTTAGAAT GGTGCCATAT TTTCTGGGAT GGCACCATGC TGGCTGGGAT GGTGCCATGC TCAGCCTCCC AAATAGCTGG GATTACAGGC ATCTGCCACC ATGCCTGCCT AATCTTTTGC ATTTTAGTA AATAGGATG CGCCCAAAGT GCTGGAATTA CAGGCATGAC CCGCCACGC TGGCCTTTTA CTTGAGTTTT AATAGGATCG CTCTTGCTC TATTGAGGAT AGTACATATG GGGTAATGAT GACAAAGAATGAA GTGGTCAGT TCTATATTTA TTAGGAAACA CCTAGGATGA CTGCCATGCA TGAAATGAA GTGGTCAGT TCTATATTTA TTAGGAAACA CCTAGGATGA CTTCTTAATA GACCAAAATG TGAAATGAA GAAAAATAGA GATGTCAAGA TGACACAAAG ATTTTTGGCT TTGACAACTG AAAGAATAGT TACTATCAAC TGTGATTGGT AACAATGCAC AAGGATGAC CGAG	60 120 180 240 300 360 420 480 540 600 614
(2) INFORMATION FOR SEQ ID NO:1400: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:	

GAATTCGGCC TTCATGGCCT AGTTCTATTT AAAAAATAAA CAACTAGACA ATTAACTAGT

TTATTAACCT ATCACAATTG AATTTTTTT TAATTTTCAG TCTTAACACA TTTTTTAAAA TGTATTAAAG TAATACATTG TAGTAGTAGG ATTATATACT CCTTGGCTGA GAATTCCAAG TACTGTGGTT CTACTGTTTA GTGGAAAACT CTGGAAGTTA AAATATAGAA TATGAAACCT CGAG	120 180 240 244
(2) INFORMATION FOR SEQ ID NO:1401:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:	
GAATTCGGCC TTCATGGCCT AAAACAAACA AAAAATTATC TGAATGATCC TGTCTCTAAA AAGAAGCCAC AGAAATGTTT AAAAACTTCA TCGACTTAGC CTGAGTCATA ACGGTTAAGA AAGCACTTAA ACAGAAGCAG AGGCTAATTC AGTGTCACAT GAGGAAGTAG CTGTCAGATG TCACATAATT ACTTTCGTAA TAGCTCAGAT TAGAATGGCT ACCCCATTCT CTAGACAAAA TCAAATTGTC CTATTGTGAC TCTTCTAAAA ATGAAGATGA AGAGCTATTT AATGACACAC CTTGGATTAA AACGGGAAAC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:1402:	•
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:	
GAATTCGGCC TTCATGGCCT AAAAGAAAAG AGAAAGTGTT ATTTTCCTGT TAGTGACATG TAGTCCCTTT GTTCTATAG GAAAAAAGGT GCCTAGAGGT AGTATATAGA GTAAAATTTG TTCCTTTAGC CTACTTCCTG CAGCTTCCAA TTTATCCAAG GAAATGTCTA CAACAATTTT GTTCAAAAAGT CTGTTCTAGT CAATTAGCAGG AGAAGTCCAC GTTATTGGGC TGATTTTGCT TACATCAGCA AGAGAAATGT CACCGTGATAC TCAGGCCGCG CTTTCTCTTC CATCACACCA TCTTCAAGGA ATGTCAATAA ACCCACTTTG GCTAGGCAGG ATTGAATTCT AGACCTGCCT CGAG	60 120 180 240 300 360 364
(2) INFORMATION FOR SEQ ID NO:1403:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:	
GAATTCGGCC TTCATGGCCT AGTTAGGGAC TAACATTTGT ATCAACAGTT GATAAATGTC TAAGATTGTT TATTATACAG CAGGGTACAA TGGTAGTGCT AATGCCAACA GGGCACCATG GAAGTTAGTC TAAAAATTAT CGCTAGGCTT TATACAAGCA ACAACATATG CTGCTGCTCT	60 120 180
550	

	GGAAATGATC TGCTTCTAAT ACTAAGCAGT TCTTTAACAT TTTTAAATAT ACCTGCCTCG AG	240 262
(2) INFORM	ATION FOR SEQ ID NO:1404:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1404:	
TGTCCTCTTT CTGTGTATTT CTTCTCTTCC TAATTCTGTT CGGCTCTGGC	TTCATGGCCT AGCAATTTGC TTCAGTTTCC TTATGTTTGC CTTTCTCATC TCCATTTAT TCCTACTCTG TCTCAGTCCA CTTACAGTTA TATTTCCTAT TATAATATTT GTGCTTTAAT ACTTTTAAAA TATCCTTTAT TTTACTGTTT CTTGTCATAT TTTAAAGTGT TTTATTTCTC AGCCTTCTAT ACTTTTGCAT CCTCTACAAT AGAGTCCGTT CCAAGCTTTC TGTCTTCCTG TGTCCTTCCA TCCTCTCCAC ACACCCCCGA CTCGAG	60 120 180 240 300 360 396
(2) INFORMA	ATION FOR SEQ ID NO:1405:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 444 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
, (ii)	MOLECULE TYPE: cDNA	
(xi) GAATTCGGCC ACATACACTG CATGCGTGCA AACAGGTTAG AGGGTCATTG GTTGTTGGCC ATGCCTTGGG	MOLECULE TYPE: cDNA	60 120 180 240 300 360 420 444
(XI) GAATTCGGCC ACATACACTG CATGCGTGCA AACAGGTTAG AGGGTCATTG GTTGTTGGCC ATGCCTTGGG AAAGTAAAGT	MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:1405: TTCATGGCCT AGACCAAAAT GTCTGCCCAG ATAAAGGATA CATTGTGCAT GGGAGAGGCA GACAAAAAAA CAATGTAGTT TGAGTGTGTG TGCGTGCTTG TGCAGCATATATA ATGCTAAAAC ATGATAAGTA CTATTAAAAA GGTGATTGAA ACTACTAGGG TATGAATAAA GGGGTTGC AATTTAAAGT TGGTTGGCCT TATTGAGGTG ACATTGGAGT CAAGACTTGG AAGAAAAAAA ATGTTCCAGA TAGAAGAAAC AGTCAGGGCA ATGGAATCAT GCATAGAGTA TTCACAGAAT AGCAAGGAAG CTCTAGTTCT	120 180 240 300 360 420
GAATTCGGCC ACATACACTG CATGCGTGCA AACAGGTTAG AGGGTCATTG GTTGTTGGCC ATGCCTTGGG AAAGTAAAGT	MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:1405: TTCATGGCCT AGACCAAAAT GTCTGCCCAG ATAAAGGATA CATTGTGCAT GGGAGAGGCA GACAAAAAAA CAATGTAGTT TGAGTGTGTG TGCGTGCTTG TGCAGGCATG TGCATATATA ATGCTAAAAC ATGATAAGTA CTATTAAAAA GGTGATTGAA ACTACTAGGG TATGAATAAG AGTGGGTTGC AATTTAAAGT TGGTTGGCCT TATTGAGGT ACATTGGAGT CAAGACTTGG AAGAAGAAAG ACACAGCTAT TGAGGGAAAA ATGTTCCAGA TAGAAGAAAC AGTCAGGGCA ATGGAATCAT GCATAGAGTA TTCACAGAAT AGCAAGGAAG CTCTAGTTCT GACTGAGACT CGAG	120 180 240 300 360 420
(xi) GAATTCGGCC ACATACACTG CATGCGTGCA AACAGGTTAG AGGGTCATTG GTTGTTGGCC ATGCCTTGGG AAAGTAAAGT	MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:1405: TTCATGGCCT AGACCAAAAT GTCTGCCCAG ATAAAGGATA CATTGTGCAT GGGAGAGGCA GACAAAAAAA CAATGTAGTT TGAGTGTGTG TGCGTGCTTG TGCAGGCATG TGCATATATA ATGCTAAAAC ATGATAAGTA CTATTAAAAA GGTGATTGAA ACTACTAGGG TATGAATAAG AGTGGGTTGC AATTTAAAGT TGGTTGGCCT TATTGAGGT CAATTGCAGT CAAGACTTGG AAGAAGAAAG ACACAGCTAT TGAGGGAAAA ATGTTCCAGA TAGAAGAAAC AGTCAGGGCA ATGGAATCAT GCATAGAGTA TTCACAGAAT AGCAAGGAAG CTCTAGTTCT GACTGAGACT CGAG ATION FOR SEQ ID NO:1406: SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	120 180 240 300 360 420
GAATTCGGCC ACATACACTG CATGCGTGCA AACAGGTTAG AGGGTCATTG GTTGTTGGCC ATGCCTTGGG AAAGTAAAGT	MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:1405: TTCATGGCCT AGACCAAAAT GTCTGCCCAG ATAAAGGATA CATTGTGCAT GGGAGAGGCA GACAAAAAAA CAATGTAGTT TGAGTGTGTG TGCGTGCTTG TGCAGGCATG TGCATATATA ATGCTAAAAC ATGATAAGTA CTATTAAAAA GGTGATTGAA ACTACTAGGG TATGAATAAG AGTGGGTTGC AATTTAAAGT TGGTTGCCT TATTGAGGTG ACATTGGAGT CAAGACTTGG AAGAAGAAAG ACACAGCTAT TGAGGGAAAA ATGTTCCAGA TAGAAGAAC AGTCAGGGCA ATGGAATCAT GCATAGAGTA TTCACAGAAT AGCAAGGAAG CTCTAGTTCT GACTGAGACT CGAG ATION FOR SEQ ID NO:1406: SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	120 180 240 300 360 420

GCCAGCTTCG	ATGAGAATAC	AACAATGTTA	GATATATTCG	TTTTGGAAGA	TACCTTTCCC	240
CCAGTTATTT	TCATTTCACA	GCTTCTCCAG	CCTCCTTCAG	CTTCTGTTCT	CCCTCTTTGC	300
${\tt TTTTCTGTCT}$	CAATTTTCCT	GCCCAGCCCT	AAATTCACAG	AGTAAATCCA	CCAGAACCTC	360
GAG					-	363

- (2) INFORMATION FOR SEQ ID NO:1407:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 229 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

GAATTCGGCC	TTCATGGCCT	AGGCTTCAGG	GATAACCACG	TTCAGGTGGG	TTAGACACAC	60
CTCCTGTGGG	AGGGTGATTG	CAATTAGCTA	TCATAAGGCA	GGAGACACAA	CAGCAACTTA	120
AATTATCCAC	AAGCAGAATC	ATGAGCTGTT	TGCAAAGGGA	GTTTCCATCG	CAAGACAGTT	180
TCACTGTATT	TAAGCGAGAT	CCTGCCCTCG	TACACGATCA	CCGCTCGAG		229

- (2) INFORMATION FOR SEQ ID NO:1408:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 512 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

GAATTCGGCC	TTCATGGCCT	AGGCTTCTAG	AACAAGAATG	TAGGCAGGCT	CCCAAATGGA	60
GAGGTAAACA	TGACCGCGTT	GTTTGAAACT	ACTTCATTAA	TTTGTAAATC	AGAACCAAAA	120
AGCTCTGGCC	CTCCCACTTC	TCTTAGCTGA	CCCTCCTCCC	CACTTACGGA	TAAACAGACT	180
TTAACTTCCC	TAACCCAGAA	ACACTTCCAC	CAAAAATGTA	TGGTTATACC	TTATCCTAAA	240
AAGGCACCAT	GCAGGCATTT	AAGACTGAAC	CAGTGAACTC	TAAATATGTA	GTAGTAGAAA	300
ATATCACTAA	TCAAAACTTC	CAGCATCAGA	TGGTACAAAA	CCCCAAGAGG	ACTGGTGACA	360
TGTACCCCGG	GATGGCAACC	CCAGCTTCTG	GCAACCCCAC	AGCCCAGCGG	GAGCTTCAGC	420
TCTGGTCAGG	TGCACGGCTG	CCAAAGTCTG	CACACCTTGG	GGACAAGGAA	AGGAGACACT	480
TGCTTCATTG	TGCTATTCAT	GACCCAGTCG	AG			512

- (2) INFORMATION FOR SEQ ID NO:1409:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: CDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

GAATTCGGCC	TTCATGGCCT	AATGGATTAT	ATTTCTATAA	CAGTTAGAGT	ACTATTCCAT	60
TTATCTCTTT	CATTTTGAGT	AAAGTTTGGT	AGTTTAGGGA	GGAATTGATC	AATTTCATCT	120
AAATTGAAAG	ATTCAGGTAC	ATAAAGTTGT	TGTTATATTA	CTTATTATTC	TTTTAATGTC	180

TGTGGGGTCT AGTGATGTCT CCTCTTTCAG TTCTGATATT GGTAATTTGT GTCTTCTCTC

TTTTTGTGCC	AGCATGCTCG AG	262
(2) INFORM	ATION FOR SEQ ID NO:1410:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 441 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1410:	
GGCCCTGGAT CAGCCTCCAA AACTGGCTGA CACTAAAGGG AATAGAAGCA ATTGCATAAC	TTCATGGCCT AGGGAGGTGG TTTCTCTATC ATTGCATGAG GTAAGAGTCT GCTAAGGCTG CAGTTTCTA CAGAAAGGAG TCATCTCTGT GAGGCAGCAT GACACAGTG GCTGACCTGG TTTTGTATAA AGATGAAAAC AGCTGTTCTC GGCCGGCCAC AGAGAGAGCG GCGGGCTCAG CCTTCACAGG ATTGTCCTTC TAGGGGGTTT TAATCATCGC AGAAAGGAAG TGGGGGTGAA GGTCAGGAAA CGAATTCACC CCTCAGGCCT CAGCTAGAGG AAGCTAAGAG AAGAAATGAG TGTTAAGAAAA AAGGCAAAGC TGGAGAGAAT GCAGAGGATT CTGGTTCCTG TCAGACTCGA G	60 120 180 240 300 360 420
	ATION FOR SEQ ID NO:1411:	441
	SEQUENCE CHARACTERISTICS: (A) LENGTH: 479 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1411:	
CCTGCTCTCT TTTATATATT GCTACTGCAG TCCAAAAGTA AATAAGCACA GATTTCTGTA AGGAGCTTTG	TTCATGGCCT AATTCATTGT CTGGTCCTTT ACAAAGACA TATGCTGGCT GTGGATGATA GGTCTACAAA GATGTGATTC AACTCATATA TGTCTCCAAA AATTCATATA CTGTTTTGCT TTACATTAAT CTAGCATTGT CTTTTTGGCTT TAAGTTACCT TCTAATTCAT CATTAGGTCA ACTTTATCA CTCACCTAAG AATGTAGGTT TCTCCTGGGT TCTTTTGCCT CTTAAGTTTT GCCATCCCCA ACAGAGACCT GCACCAAAGAG ACCTTACTTT TAGACTGTAA GCACCAAAGT GAACAGAGACCC GCACGCTCA GTCTTATGAC TGGCAATACA AGTTGAGGGT GACAGAACAC TAGCTATGTA TAGTGTTGTC TAGGTGAGTG CTTCTCGAG	60 120 180 240 300 360 420 479
	ATION FOR SEQ ID NO:1412:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 497 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1412:	
	TTCATGGCCT AGCCGATTTA TAAATATGTA TATATAACCT TTCCCTTTTT TTAGTAATAG TCAAAGCCAT ACCCTATTCC TTAGTGAGAA AGCCAGTTTG	60 120

AAACGAATGT	AGCAATAGAT	GTAAAAACAT	TTAAAGGCGT	TTTAATGTGG	CTTTTTAATG	180
AGCTGGCTTA	TGCCTGTAGT	CCCAGCACAT	TGGGCAGCTG	AGCTGGGAGG	ATCGCTTGAG	240
CCCGGGAGTT	CAAGACTAGC	CAGGGCAACA	TAGTGAGACC	CCATCTCTAT	AAAAAATT	300
ATGTTTTTAA	AGATAAGGAA	CAGACTTAAA	GTGATGATTG	ATTGCTCATA	GAACGTTCAT	360
TTTGGGCTCC	AGAACTAGGA	ATGATGTAGA	${\tt ATTTATTGTT}$	GTGTCATTGT	CTCATTAAAT	420
GCTGTAGTTT	CCTATGTCCT	TGCCTACCTT	CTTTCCTCAG	AGCCTCGCAT	CTGACCCTCA	480
GAGAGTAGCA	GCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:1413:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 439 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC	TTCATGGCCT	ACAGGAACAA	AAAATGCTAT	GCTATTATCT	CAAAAATGCA	60
TACTCCTTCC	TACTTAAGAA	TAATAAATTT	ATATATTATG	ATATGGTAAA	ATTCACAACT	120
AATTGTATTT	TTCCCTAGAA	TGTTTAAAGC	ATTATCTAAT	ACCAGCTTCA	GTGTCTATAT	180
TACTGTAACT	TCATGAAAGA	CTACTAACAA	TACTGGCTAT	CATTTATTAA	TATTAAGTAG	240
TACTTGCCAG	ATGCCGTTAG	AGGTGCTTTA	AATGCATTCT	CATTTAGTCT	TCGTGTGTAC	300
TACCGTTATC	TTCACTTTTT	AGATAAGGAG	ACTAAAGTAT	AACTAGAGCT	AAGAAACATG	360
AGAAAGACGA	CCTAGCTACT	GCCTATTTTG	TAATTCCCAT	GGACTAAGCT	TGGAGAAGTA	420
AGAACTATTA	CTACTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:1414:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 243 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC	TTCATGGCCT	AGCCACTTCA	AGACGGCAAG	TTATTTTAGC	TCCTGTCTAA	60
ATAAGTTAGT	GGGCTCCAGT	CCTTAAACCA	CTATTTTCTT	TATTAATTCC	TCAAGTACAG	120
ACTTTTGTAT	GTAACCAGTC	TTTTTAAACC	TGTGTATAAT	GACTCATTAA	TGAGTTGTAA	180
AATAAATGTA	GTGAGTTATG	ACCAATATAA	AAAAATAGAA	AAGGCCAGGC	ACAGTCGCTC	240
GAG						243

- (2) INFORMATION FOR SEQ ID NO:1415:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC	TTCATGGCCT	AGTCTTCCAA	GACAGGAATC	AGCAACCTTT	TTTTGTTTTT	60
CTGTATCAGT	AATTCATTCT	GTATATTTTA	AAAAGTTTTA	ACCTCTTCTT	CCTAGCCCTC	120
CAGTATTTGT	TTATAAATTA	AAACGTTTCC	CAAAGTGTTT	TCTGTGAAAC	AATAGTTCTA	180
AAAGGTGCTC	TAAGAAAAGC	TAAGTACATG	GCAAAATCCA	AAGTATATGT	TTTATTCATT	240
ACATTTGATG	AATTTTTTTT	GTTTTTTCCT	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:1416:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 341 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

GAATTCGGCC	TTCATGGCCT	AGAGAGCAGG	TTTTAGCTTG	CATCCAGCTG	TTTCTTGAGT	60
${\tt GATGTGTACA}$	GCTTACCCCC	AAAGAGGCAA	CTGAATTTCA	GCTGCTCTAA	TACCCACACC	120
CTCAACTTAG	GTTTAGTCAT	AATAAAAAAC	AGAATGGATT	TGTTAGTTCC	ATTGATTGCC	180
ACAAACCTCA	CCTTCTGTGT	GGCAGAGATG	TGCTTTAGTT	CTTCATTGGA	ATGTTACTTT	240
CAGATCTCAC	AAACCTCAAA	CCTAGGGCAC	CACCAATGAC	AAAGAGAATG	CTAAATAGAT	300
AAATCCTTTG	CCAGGTCTTC	AAGCTTTCCA	CTCCCCTCGA	G		341

- (2) INFORMATION FOR SEQ ID NO:1417:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 455 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

GAATTCGGCC	AAAGAGGCCT	AGCCATTATT	ATTAAAAAGT	AGGATTGCTA	CCCGCCATTA	60
CTATTAAAAA	GTAGGATTGC	TACCCGCCAT	TATTATTAAA	AAGTAGGATT	GGTACCCGCC	120
ATTATTATTA	AAAAGTAGGA	TTGCTACCCA	ACATTATTAT	TAAAAAGTAG	GATTGCTACC	180
CTCCATTATT	ATTAAAAAGT	AGGATTGCTA	CCCTCCATTA	TTATTAAAAA	GTAGGATTGC	240
TACCTGCCAT	TATTATTAAA	AAGTAGGATT	GCTACCTGCC	ATTATTATTA	AAAAGTAGGA	300
TTGCTACCTG	CCATTATTAT	TAAAAAGTAG	GATTGCTACC	CGCCATTATT	ATTAAAAAGT	360
AGCATTGCTA	CCCGCCATTA	TTATTAAAAA	GTAGGACTGC	TACCCGCCGT	TATTTGCACA	420
GCTACCTTAT	GAAAGTAGTT	TCACGCTGTC	TCGAG			455

- (2) INFORMATION FOR SEQ ID NO:1418:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 573 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

GAATACCTAG CTTCCATGAT TTATGATAGA TATCCTTTAT TGGACCAATT CGTGTCTGTA

ACCAGCCTCC	TGTTTCTACT	GCCATCCCCT	CCTCATGCAC	AGATGCCTCC	TCCCTTGGCT	120
CCTGCTCTGA	TCCCTGTACC	CAGCTTGTCC	CCTGCAAGCA	TGTTCCCCTC	CCTTGCCCAG	180
GCTCTGACAC	CCCACACATG	TGTGGATCCC	CTCCCCTGTC	CCAGCTCTGA	TACCCCTTGC	240
			CTTCCCTGTC			300
					CTCCTGCGGT	360
			ACAGCCTTGT			420
CTCCCCCATC	CACTGCTGGT	GCAGATGCTT	CCTTACGGGG	CCTTGTCTGA	TGGCTTTAGG	480
GCTGAATCAT	GCAGGAAGGA	AGGAGAAGGA	CAAGAAGAAA	AGGGAAGGCT	GGGAAGGGAA	540
GCGGGTGGTA	AAATTGGTTC	ACAAGCCCTC	GAG			573

- (2) INFORMATION FOR SEQ ID NO:1419:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 188 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

GAATTCGGCC AAAGAGGCCT	ATTTTAAAAA	AAACTATTTA	TAATTTTTAAT	TTATTTTTGG	60
TTGTTTTTTG CACAATGAAG	TTTCAGCTTC	TCAACCTTCT	CCCCTACCCA	GGGCTGTGGA	120
CCCAGACTGG CCTTGAGCCA	CAGTCCCTCT	TTCCCTCCTC	ACCCTCTTCC	CCCTCCGGGC	180
ACCTCGAG					188

- (2) INFORMATION FOR SEQ ID NO:1420:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 572 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAATTCGGCC A	AAGAGGCCT	ACGAGGAAAG	ATCTAATTAT	CATGGACCTG	CGACAGTTTC	60
TTATGTGCCT G	TCCCTGTGC	ACAGCCTTTG	CCTTGAGCAA	ACCCACAGAA	AAGAAGGACC	120
GTGTACATCA T	GAGCCTCAG	CTCAGTGACA	AGGTTCACAA	TGATGCTCAG	AGTTTTGATT	180
ATGACCATGA T	GCCTTCTTG	GGTGCTGAAG	AAGCAAAGAC	CTTTGATCAG	CTGACACCAG	240
AAGAGAGCAA G	GAAAGGCTT	GGAAAGATTG	TAAGTAAAAT	AGATGGCGAC	AAGGACGGGT	300
TTGTCACTGT G	GATGAGCTC	AAAGACTGGA	TTAAATTTGC	ACAAAAGCGC	TGGATTTACG	360
AGGATGTAGA G	CGACAGTGG	AAGGGGCATG	ACCTCAATGA	GGACGGCCTC	GTTTCCTGGG	420
AGGAGTATAA A	AATGCCACC	TACGGCTACG	TTTTAGATGA	TCCAGATCCT	GATGATGGAT	480
TTAACTATAA A	CAGATGATG	GTTAGAGATG	AGCGGAGGTT	TAAAATGGCA	GACAAGGATG	540
GAGACCTCAT T	GCCACCAAG	${\tt GAGGGTCTCG}$	AG			572

- (2) INFORMATION FOR SEQ ID NO:1421:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 498 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

GCAAGACGGC	TACTGAGGCA	GGAGAATCGC	TTGAACCCAG	GAAGCGGAGG	TTGCAATGTG	60
CCAAGATCGT	GCCACTGCAC	ACTCTAGCCT	GGGCAACAGA	GCAAGACTGT	GTCTCAAAAA	120
AAAAAAATCT	TNGACNAAAC	ATAGTTGTTN	ACATACTTCT	TTAATCCCAG	AGTTAGTTTT	180
AAAAANNACA	TGATTGCTGT	TTTTGCATAT	TATCTCAGCG	${\tt GTCTAAAATT}$	AACCTAGCCA	240
TGTGCAGGAA	TGGGTAAAGT	CCCCTTAAAC	AAAAATGGGG	${\tt TTAGTTANGT}$	TAGTTCTTTT	300
GCCATTTCAC	TGGTCATATA	CCTGAAGCGC	TTAGCCTGAC	ACAATTGAAC	GCCAGACGGA	360
AGCCGNGATC	AGCGGTCCTG	${\tt ACGGGGGTCA}$	GAGTCAGACC	AGGGGTCTTT	TACCCAAGTG	420
GGGAAGATTG	GGAAAGGCCT	AGGATCAGAG	AGGGAAATGG	GTCCCTGGTT	GCCCATGGAC	480
CTAATGGGGT	CTCTCGAG					498

- (2) INFORMATION FOR SEQ ID NO:1422:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 827 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTCGCGG	CCGCGTCGAC	GAGGAAACCA	GCCAAGGACT	AACTACGACC	ATGAGATTGG	60
CAGTGATTTG	CTTTTGCCTG	TTTGGCATTG	CCTCCTCCCT	CCCGGTGAAA	GTGACTGATT	120
CTGGCAGCTC	AGAGGAGAAG	CTTTACAGCC	TGCACCCAGA	TCCTATAGCC	ACATGGCTGG	180
TGCCTGACCC	ATCTCAGAAG	CAGAATCTCC	TTGCGCCACA	GAATGCTGTG	TCCTCTGAAG	240
${\tt AAAAGGATGA}$	CTTTAAGCAA	GAAACTCTTC	CAAGCAATTC	CAATGAAAGC	CATGACCACA	300
TGGACGACGA	TGATGACGAT	GATGATGACG	ATGGAGACCA	TGCAGAGAGC	GAGGATTCTG	360
${\tt TGGACTCGGA}$	TGAATCTGAC	GAATCTCACC	ATTCGGATGA	GTCTGATGAG	ACCGTCACTG	420
CTAGTACACA	AGCAGACACT	TTCACTCCAA	TCGTCCCTAC	AGTCGATGTC	CCCAACGGCC	480
GAGGTGATAG	CTTGGCTTAT	GGACTGAGGT	CAAAGTCTAG	GAGTTTCCAG	GTTTCTGATG	540
AACAGTATCC	TGATGCCACA	GATGAGGACC	TCACCTCTCA	CATGAAGAGC	GGTGAGTCTA	600
AGGAGTCCCT	CGATGTCATC	CCTGTTGCCC	AGCTTCTGAG	CATGCCCTCT	GATCAGGACA	660
ACAACGGAAA	GGGCAGCCAT	GAGTCAAGTC	AGCTGGATGA	ACCAAGTCTG	GAAACACACA	720
GACTTGAGCA	TTCCAAAGAG	AGCCAGGAGA	GTGCCGATCA	GTCGGATGTG	ATCGATAGTC	780
AAGCAAGTTC	CAAAGCCAGC	CTGGAACATC	AGAGCCACGG	CCTCGAG		827

- (2) INFORMATION FOR SEQ ID NO:1423:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

${\tt GAATTCGCGG}$	CCGCGTCGAC	GGGAGAGGAA	GGGTTGGGCA	GGATGGAATA	TTAAATTGTA	60
ACATGATAAA	CATGCAAGAC	TGTTATCCAA	TCTAGATAAT	TTATATACAT	TTTGATGACT	120
TAGGAAAACA	AAGCAATCAT	TTGTGACAAG	CCTAAAAAGC	TTGACATATT	TAACATACTT	180
AGGAACTTTT	TTTGTGCGGT	GGGAATTCTC	TAATTGTATC	ATGTGGGCCT	TTTGAAAGTA	240
ACAAACAGAA	GGCCAGTCTG	TTGCAAGTTT	GCTGCTGAAC	ATCACATTCC	ACCCTAAGAA	300
AACACAAGGT	GGATTGCATC	GAGGGTGGAT	ACCTTACCTT	AGCACAGA		348

(2) INFORMATION FOR SEQ ID NO:1424:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 152 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
A CONTINUE DESCRIPTION OF THE SAME	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:	
GAATTCGCGG CCGCGTCGAC TTGGAGAATG TGGCCTCTGA TCACTAACCA GGGTTTTCTC	60
TTTACACTGG CTTGTTTACT TATTTCTTCA CCAAAGCCAG GGAACGTCCC TTTAGCTACT	120
GCAGCATTTC TAACAGATGC GACAAATCAC AG	152
	102
(2) INFORMATION FOR SEQ ID NO:1425:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 206 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) NOT DOWN D. MADDDAY	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:	
(NE)	
GAATTCGCGG CCGCGTCGAC CTAAACCGTC GATTGAATTA GACCTGCCTC GAGATGCGCC	60
ACTTTCTGCT CACCCACCTT AGAGCCTTTG CATATGCAGT TGCTTCCTCA GAGTATTGCC	120
ATCCCCAGCA CGACCCCAG CTCATTCTTC AGGCCACTAA CGTAAATGTT ACTTTCTCAA	180
AAACACCCTC TCCATCCCGG CACCCA	206
44)	
(2) INFORMATION FOR SEQ ID NO:1426:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 353 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(5) 555-550	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:	
GAATTCGCGG CCGCGTCGAC GTGGGTACTT CATCCTCCTC ATCACTGGTT GGCACTGAGA	60
GCTTCTTAAG ACGCTCCATG AGCTCTTTCT CTTCTCCATC ATCATCCACA TCCTTCTTCC	120
GCCTGCCTTT TCGGGTATCT CGCTTTTTT TTTGCTGCTG TTGCTGTTGC TGCTGCTGCT	180
GCTCCTTCTC CTTGAGCACT TTCTCTTCTT CCCCAGCCTG TTTATCTTCT ACTGCCAGCT	240
CTTCAAAGAA CGTTTTTTTG ATCTTCTNGT CCTTCTTCCC TTTCTTCACC ACTTTGTCTG	300
ATGGGCTCGT GCTCTCTCCG TCCCCGATCC ACTCGGGCTC CGGCGGACTC GAG	353
THOUSELEST SCIENCES TESCENTIC ACTOMOSIC COCCOMETE SAN	333
(2) INFORMATION FOR SEQ ID NO:1427:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 343 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
/ ' ' NOT DATE TO THE PARTY OF	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GAATTCGCGG	CCGCGTCGAC	AGATATTTGG	TTATCTTGAC	TTTTTAAAAT	AACATATTTC	60
TACAGGATTT	TGAGTCTGAG	AAGAGAAAGG	TAATATGCAA	GACACTTCGA	TTTGTTGCAC	120
ATTATTATGG	AGCATCATTA	ATGGTTTGTA	CATTTCTTGT	CCTTTGGGCT	TGAATGGACA	180
GTACCAAATT	TGGGGAAATC	AGCAACTTGA	TGCACAGCTA	CGAGGAATAA	ATGCTTTTGC	240
TAATGCACAT	GGTCCCGTTG	CTTTCCCACT	GCTGAAGACC	TCTCCTTACA	GAGTGTTTGA	300
TAATGCATCT	GTTGAACATG	CACTGCTAGA	TGGTCCTCTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO:1428:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 542 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAATTCGCGG	CCGCGTCGAC	GAGGGGAAGA	TGTCACGCAA	GATAGAAGGC	TTTTTGTTAT	60
TACTTCTCTT	TGGCTATGAA	GCCACATTGG	GATTATCGTC	TACCGAGGAT	GAAGGCGAGG	120
ACCCCTGGTA	CCAAAAAGCA	TGCAAGTGCG	ATTGCCAAGG	AGGACCCAAT	GCTCTGTGGT	180
CTGCAGGTGC	CACCTCCTTG	GACTGTATAC	CAGAATGCCC	ATATCACAAG	CCTCTGGGTT	240
TCGAGTCAGG	GGAGGTCACA	CCGGACCAGA	TCACCTGCTC	TAACCCGGAG	CAGTATGTGG	300
GCTGGTATTC	TTCGTGGACT	GCAAACAAGG	CCCGGCTCAA	CAGTCAAGGC	TTTGGGTGTG	360
CCTGGCTCTC	CAAGTTCCAG	GACAGTAGCC	AGTGGTTACA	GATAGATCTG	AAGGAGATCA	420
AAGTGATTTC	AGGGATCCTC	ACCCAGGGGC	GCTGTGACAT	CGATGAGTGG	ATGACCAAGT	480
ACAGCGTGCA	GTACAGGACC	GATGAGCGCC	TGAACTGGAT	TTACTACAAG	GACACTCTCG	540
AG						542

- (2) INFORMATION FOR SEQ ID NO:1429:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 465 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

GAATTCGCGG C	CCGCGTCGAC	TTAAGAGTCT	GCTTCGGAGA	CCGTAAGGAT	ATTGATGACC	60
ATGAGATCCC T	rgctcagaac	CCCCTTCCTG	TGTGGCCTGC	TCTGGGCCTT	TTGTGCCCCA	120
GGCGCCAGGG C	CTGAGGAGCC	TGCAGCCAGC	TTCTCCCAAC	CCGGCAGCAT	GGGCCTGGAT	180
AAGAACACAG T	rgcacgacca	AGAGCATATC	ATGGAGCATC	TAGAAGGTGT	CATCAACAAA	240
CCAGAGGCGG A	AGATGTCGCC	ACAAGAATTG	CAGCTCCATT	ACTTCAAAAT	GCATGATTAT	300
GATGGCAATA A	ATTTGCTTGA	TGGCTTAGAA	CTCTCCACAG	CCATCACTCA	TGTCCATAAG	360
GAGGAAGGGA G	TGAACAGGC	ACCACTAATG	AGTGAAGATG	AACTGATTAA	CATAATAGAT	420
GGTGTTTTGA G	GAGATGATGA	CAAGAACAAT	GATGGCATAC	TCGAG		465

- (2) INFORMATION FOR SEQ ID NO:1430:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 373 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

GAATTCGCGG	CCGCGTCGAC	GCTGTTCATG	AGGAGACTTA	ACCACAATTC	AAAGTGTAGC	60
					TATCTCAATC	120
	ATGTTCATGT					180
	AGCACATTGA					240
	TCACTGAGGG					300
	AGCTCAGGCT	CTGGTGGAAG	CAGGGGGCAT	GGATGTCAAA	CAACTGATGT	360
GCAAACACTC	GAG					373

- (2) INFORMATION FOR SEQ ID NO:1431:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 632 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

GAATTCGGCC	TTCATGGCCT	ACTACTGATG	AGAACATTAT	CTGCATATGC	CAAAAAATTT	60
TAAGCAAATG	AAAGCTACCA	ATTTAAAGTT	ACGGAATCTA	CCATTTTAAA	GTTAATTGCT	120
TGTCAAGCTA	TAACCACAAA	AATAATGAAT	TGATGAGAAA	TACAATGAAG	AGGCAATGTC	180
CATCTCAAAA	TACTGCTTTT	ACAAAAGCAG	AATAAAAGCG	AAAAGAAATG	AAAATGTTAC	240
ACTACATTAA	TCCTGGAATA	AAAGAAGCCG	AAATAAATGA	GAGATGAGTT	GGGATCAAGT	300
GGATTGAGGA	GGCTGTGCTG	TGTGCCAATG	TTTCGTTTGC	CTCAGACAGG	TATCTCTTCG	360
TTATCAGAAG	AGTTGCTTCA	TTTCATCTGG	GAGCAGAAAA	CAGCAGGCAG	CTGTTAACAG	420
ATAAGTTTAA	CTTGCATCTG	CAGTATTGCA	TGTTAGGGAT	AAGTGCTTAT	TTTTAAGAGC	480
TGTGGAGTTC	TTAAATATCA	ACCATGGCAC	TTTCTCCTGA	CCCCTTCCCT	AGGGGATTTC	540
AGGATTGAGA	AATTTTTCCA	TCGAGCCTTT	TTAAAATTGT	AGGACTTGTT	CCTGTGGGCT	600
TCAGTGATGG	GATAGTACAC	TTTTCACTCG	AG			632

- (2) INFORMATION FOR SEQ ID NO:1432:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 298 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCGGCC	TTCATGGCCT	ACTAATTTCC	AAGAGCTAAA	CTTTATACCG	CCTGCAATAT	60
TTCCATTTAC	TACCAGTTTT	TTTCTGACCT	AGTCAGATAT	AAGAAGCCCC	CTTACTGGAT	120
ACAAGACAGT	TAATTATCAG	ATCCAGTCTG	ATCCTAGATC	CAGTCTGATC	CTAGACCCAG	180
TCCAGTTTCT	GTTGTGACTT	CCAAACCCAG	TTTGGATCAG	AAATTTGCTC	AAAGAAACTA	240
GGAGAGCTCA	AAACACAAAT	ATGTGGAGCT	TCTGAATCTG	AGAGAGAACG	AACTCGAG	298

- (2) INFORMATION FOR SEQ ID NO:1433:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433: GCGTGGTTTC ACCTTGTTGG CCAGGCTAGT CTTGAACTCC TGACCTCAGG TGATCCACCC ACCTCGGCCT TCCAAAGTGC TGGGATTACA GGCATGAGCC ACCGCATCTG ACTGGTGCAC 120 TTTACTTTGA CCTGTCATAA ATCCCTTGGT TTGTTATTAC TAGTTTTTAC TTTAGACAGC 180 AATTATCTTT CAAGGAAAAA TTTAAAAGGA AAAAATGTCT TATATTTACC CTCATGTTTA 240 CCATTCCCAG TGCTCTTTAT TTCTTTATGT CAATCCGGAT TTCAATTTGT TATCATACTG 300 TTTCTGCCTG AATAACAGTT TAACAGCAAC TCGAG 335 (2) INFORMATION FOR SEQ ID NO:1434: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434: GAATTCGGCC TTCATGGCCT AATGCTCTGT GTCACTGTCT CCCGGTGCTC AGCACAGACA 60 AGTTCAAGAC AGATTTTTAT GATCAATGCA ACGACGTGGG GCTCATGGCC TACCTCGGCA 120 CCATCACCAA AACGTGCAAC ACCATGAACC AGTTTGTGAA CAAGTTCAAT GTCCTCTACG 180 ACCGACAAGG CATCGGCAGG AGAATGCGCG GGCTCTTTTT CTGATGAGGG TACTTGAAGG 240 GCTGATGGAC AGGGGTCAGG CAACTATCCC AAAGGGGAGG GCACTACACT TCCTTGAGAG 300 AAACCACTGT CTCGAG 316 (2) INFORMATION FOR SEQ ID NO:1435: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435: GAATTCTAGA CCTCCCACCC TGTAGAACAT TCTCCTCACT TAGGAGATAG TCATATTTTC 60 AGGCTGCCTT TGAAACTGTG GGTACACAAA CAGCAGAGCG ATCTATTTCA GCAGTTGAAG 120 TTGTATTTGA GCCATTATTT CTTCCACTCT CTTTTTGGTT GAGTTTCTAG GAAGGAAAGG 180 GCTGAACTCC ATGACTGCTC ATATTACAGT GCTAAGTCCT CACAGCCATC CACTGTTTAT 240 ACACAAGAAG AAACTAGGCC CACCAAGAGT AAGCGCCTGC CTGAGGTCCG TGAGTGAGTA 300 AGGGCCAAAG GTGAGGTTGG GATCTGGCCC TTTCTCTTTT CTGGCCACCA CAGGGCACTA 360 CCTCCCATAC CCACACACTC GAG 383 (2) INFORMATION FOR SEQ ID NO:1436: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

GGAGAACTGC	TAAGGTCCAC	AACGTCGACA	ATTGAAAGCT	TTGCTGCACA	AGAAAAACAA	60
ATGGAAGTTT	GTGAAGTATG	TGGAGCCTTT	TTAATAGTAG	GAGATGCCCA	GTCCCGGGTA	120
GATGACCATT	TGATGGGAAA	ACAACACATG	GGCTATGCCA	AAATTAAAGC	TACTGTAGAA	180
GAATTAAAAG	AAAAGTTAAG	GAAAAGAACC	GAAGAACCTG	ATCGTGATGA	GCGTCTAAAA	240
AAGGAGAAGC	AAGAAAGAGA	AGAAAGAGAA	AAAGAACGGG	AGAGAGAAAG	GAAAGAACTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:1437:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 228 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

GAATTCGGCC	TTCATGGCCT	AGACTTTTAC	ACATTTTTAT	TAGCTACCTG	GAATTATTTT	60
TGTAACACGT	TAAGTGTAAA	TAAACAAATA	ATGCTTTGCT	TTTTGTTTTC	TGGAATTATT	120
GTTGTATTTC	TTTGCCAAAT	GCATATATCT	TCAGGTCTTT	TTTTTATAAC	CATATGCATA	180
CCAAGGCACC	ATTCCATTGA	CTTTCCAACT	TCTGTCCCAA	CCCTCGAG		228

- (2) INFORMATION FOR SEQ ID NO:1438:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 498 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

GTGAATTCCA GTCCCCACCC	AGAAACCCGC	AGCATGATTG	TCTGCCTCCT	TTTCATGATG	60
ATTTTATTGG CAAAGGAAGT	TCAACTGGTA	GACCAAACAG	ATTCACCTTT	ACTTAGTCTC	120
CTTGGACAGA CAAGCTCACT	TTCATGGCAT	CTTGTGGATA	TTGTGTCGTA	CCAGAGTGTG	180
CTAAGTTATT TCAGCAGCCA	TTACCCGCCG	TCCATCATCC	TGGCAAAAGA	ATCTTATGCT	240
GAATTAATCA TGAAGCTCCT	AAAAGTGTCT	GCGGGCCTTT	CTATTCCTAC	TGACAGCCAG	300
AAGCATCTTG ATGCAGTTCC	AAAATGCCAA	GCTTTTACTC	ATCAGATGGT	TCAATTCCTC	360
AGCACCCTGG AACAAAATGG	AAAAATCACC	TTAGCAGTCC	TAGAACAGGA	AATGTCTAAG	420
CTCTTAGACG ATATCATTGT	CTTTAACCCG	CCCGACATGG	ACAGCCAGAC	CCGCCACATG	480
GCCCTCAGCG GTCTCGAG					498

- (2) INFORMATION FOR SEQ ID NO:1439:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 314 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

					TTAGTTCAGA	60
TGGTCTAACC	ATTGTTCTAT	ATGTGCATTT	TAGTTAATAT	TGTGTATTAA	AGGATAAGTC	120
TTAATGCTCA	AAGTATGTTA	AAAATAGATG	TAGTAAATCA	GTCCCTTTGT	GAATGTCCTT	180
					ACCCCTTGGA	240
GCTAGACATC	CTGTACTTAG	TCACGGGGAT	GGTGGAAGAG	GGAGAAGAGG	AAGGGTGAAG	300
GGAAGTGGCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:1440:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 424 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

CCAGCCGTCT GCAGCTCCGG	CCGCCACTTG	CGCCTCTCCA	GCCTCCGCAG	GCCCAACCGC	60
CGCCAGCACC ATGGCCAGCA	CCATTTCCGC	CTACAAGGAG	AAGATGAAGG	AGCTGTCGGT	120
GCTGTCGCTC ATCTGCTCCT	GCTTCTACAC	ACAGCCGCAC	CCCAATACCG	TCTACCAGTA	180
CGGGGACATG GAGGTGAAGC	AGCTGGACAA	GCGGGCCTCA	GGCCAGAGCT	TCGAGGTCAT	240
CCTCAAGTCC CCTTCTGACC	TGTCCCCAGA	GAGCCCTATG	CTCTCCTCCC	CACCCAAGAA	300
GAAGGACACC TCCCTGGAGG	AGCTGCAAAA	GCGGCTGGAG	GCAGCCGAGG	AGCGGAGGAA	360
GACGCAGGAG GCGCAGGTGC	TGAAGCAGCT	GGCGGAGCGG	CGCGAGCACG	AGCGCGGGCT	420
CGAG					424

- (2) INFORMATION FOR SEQ ID NO:1441:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 346 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

${\tt GAATTCGGCC}$	TTCATGGCCT	ATAGGCCATG	AAGGCCGGCC	TTCATGGCCT	AGTCAGGCTT	60
AAGTTTAATA	AATAGCAAAT	TGCATACAGA	TATTTACAAT	GATCGAAAGA	CAAACAGAGG	120
TCCTATCCGT	GCAGTCCCAA	CAATAAAGAC	AGGCATTGGC	ATAMAGTGTT	TATAAATTCT	180
TGGGTACAGC	TGTTCTGAAA	GTAAAGTTCA	CTTTCAATCC	TAAAAAAAGT	CCGCTATTCC	240
TCCCTGGCTG	CTCTGGACTG	TCCTCATCCT	CTTTAGCTGC	TGTTGCGCCT	TCCGCCACCG	300
ACGAGCTAAA	CTCAGGCTGC	AACAACAGCA	GCGGCAGCAT	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:1442:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 591 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC	TTCATGGCCT	AGGCTTCCCT	GTTCCCTCAG	CCCCAGTCGA	GAGGAAAGAG	60
AATCGGGCCA	CTGCCAGAAA	GAGAGTCAAG	CAAACCTGGA	AGGGCAAATC	TGAGAGTGGG	120
AAGGCCAAAG	GCCGAGGCCC	AGATTTAGTA	TTCACTAGCA	GCGCCTTCGG	GTAGCAGGAT	180
GATTCCTTTT	CCTGCCTGTC	TGCTGCTGGC	TCTCTTCCCT	AAGGTACAGG	TTGGCAGGAC	240
CACCTCCGCC	TACTTCTCCA	CCATCCCTAG	CATGCCAGCC	CGTTCCCAGA	TCAACCTGCC	300
AGTGGAGTCA	GGCAGTGCAC	TCCTGGAGCC	AAGAGGGAAG	GGCAGGGTAG	AGAGGGTATG	360
TCCAGTAGCC	TGGAGCTCCA	TGGTGGCTTC	ATGCCTCCCT	TCTCCCAGCT	CAGGTGGCCC	. 420
TGAGGGCTCC	CTCGGAACAG	TGCCTCAAAT	CCTGACCCAA	GGGCCAGCAT	GGGGAAGAGA	480
TGGTTGCAGG	CAAAATGCAC	TTTATAGAGA	${\tt TTTTCTATTG}$	CTGGGAAGGT	GTGTTTCTCC	540
CACAATTTGT	TTGTGAATAT	TCACTTGTTT	TATAAATGTC	TGACCTGTCC	G	591

- (2) INFORMATION FOR SEQ ID NO:1443:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 526 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC	TTCATGGCCT	AGATTGAATT	ACCTGCCTCG	AGCTCCTGTC	CTTAGGTGAT	60
CTGCCCGCCT	TGGCCTCCCA	AAGTGCTGGG	ATTATAGGAG	TGAGCCACCT	GGCCCAGCTA	120
GCTTTTAAAG	TTCTGCCAGC	ATAGCCCCGG	GATGGGGTGG	GGGTAGACAG	GGCCTTAGGA	180
CTTTCATTTT	TAAAATGCTC	ACTCCACAGT	GAAGAAACAG	GTGATGACTA	TCCTGAATAT	240
TTGGGAAGCT	GTGTCCTAGA	ATTTTTGGCC	TCAGTTCCAG	AACCCACAGC	TTCTTTACAA	300
CATGCTTCAA	GCCTGGGACT	GAGCTGCCAG	TAAATAAACC	CCTAGTAACC	TTAATATGGG	360
TTAATAAGAT	TAGGTGCCCG	CTCTGCACGC	TCCCCTGCCC	CTCCTCGTCC	GGGCACCTGT	420
TATGCTAGGC	CAGCATGTTT	GCAGCTTAGC	CAGGGAAAAT	CGTGGACCAA	GACAGGGCTT	480
TTCATCCACG	ACTGGCTAAA	AAGATGGCTC	TCAATAATAT	CTCGAG		526

- (2) INFORMATION FOR SEQ ID NO:1444:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GATTGAATTC	TAGACCTACC	TCTCTTTTTT	TGTGGTCTCT	CCTTCATTCT	CTGTTCATTT	60
CTCCGTGAGA	TTTTCTGATT	AGTAGTTACC	TTCAGCATGC	CAGTTGACTT	GCAAACCTAC	120
AATCCAACCT	TTCTTCTACT	TTGTCATCTG	ACAACAGCCT	GGTTTGTAGC	TGATTCCAGG	180
ACTTCTTCAC	TTGGGTGGCC	ACTCTCATTA	CCACAGAGTT	CACTAGTCAT	GGTGAACACA	240
CCAGTCTTTT	ACACCTCCCT	CACTCCCAAA	CCACTCGAG			279

(2) INFORMATION FOR SEQ ID NO:1445:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 644 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GAATTCGGTC	TTCATGGCCT	AGGGGAAGAA	AGGCACCTTT	CTCACAGGGT	GGTGAGAGAG	60
AGGAAGGGGG	ACGGGGAAAG	CCCTTTATAA	AAGCATCAGA	TCGGCTGGGC	ACAGTGGCTC	120
ACGCGTGTAA	TCCCAGCACT	TTGGGAGGCC	GAGGCGGGTG	GATCGCGGGG	TCGGGGGTTT	180
GAGGCCGGCC	TGGCCAATAT	GGTGAGACCC	CGTCTCTGCT	GAAGATACAA	AAATTGGCTG	240
GGCATGGTGG	CGGGCACCTG	TGGTCCCGGC	TGCTTGGGAG	GCTGAGGCGG	GAGAATCGCT	300
TGAGCCCGGG	AGGCAGAGGT	TGCAGTGAGC	TGAGATCGCG	CTACTGCACT	CCAGCCTGGG	360
CAACAGAGCG	AGACTCCATC	TCAAAAATAA	AAGAAAGGCA	TAAATATTAC	ATTACCCTCT	420
GAATACTGTG	GTTGTATACT	TGAGTTTTTA	TGTGTGTATA	TATATGTGTA	TAGGAGAGTA	480
TAAAATAAAA	GAAATTAGGA	TTTTGCAAGT	TATAATCATA	TAAAATTGAT	TACCCTAAAT	540
ATATCATTAG	GATATTATGT	TATTTACATC	TCTTATGCTA	ATTCTAATTT	TCTTTTATTG	600
TAGTATAGTA	GAATTGAGAT	TTGNNAATGG	AATTGGTCCT	CGAG		644

- (2) INFORMATION FOR SEQ ID NO:1446:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 756 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GAATTCGGCC	TTCATGGCCT	ACCTCACCCG	GCCCGGACAC	GGACAGGATT	GACAGATTGA	60
TAGCTCTTTC	TCGATTCCGT	GGGTGGTGGT	GCATGGCCGT	TCTTAGTTGG	TGGAGCGATT	120
TGTCTGGTTA	ATTCCGATAA	CGAACGAGAC	TCTGGCATGC	TAACTAGTTA	CGCGACCCCC	180
GAGCGGTCGG	CGTCCCCCAA	CTTCTTAGAG	${\tt GGACAAGTGG}$	CGTTCAGCCA	CCCGAGATTG	240
AGCAATAACA	${\tt GGTCTGTGAT}$	GCCCTTAGAT	${\tt GTCCGGGGCT}$	GCACGCGCGC	TACACTGACT	300
GGCTCAGCGT	GTGCCTACCC	TACGCCGGCA	GGCGCGGGTA	ACCCGTTGAA	CCCCATTCGT	360
${\tt GATGGGGATC}$	GGGGACTGCA	ATTATTCCCC	ATGAACGAGG	AATTCCCAGT	AAGTGCGGGT	420
CATAAGCTTG	CGTTGATTAA	GTCCCTGCCC	TTTGTACACA	CCAACCCGTC	ACTGACTTTT	480
ACCGCAGCTG	GAACTGTGCT	CCAGGGCCTT	TCCATCTTTT	CCCCCACACT	CCCTTTGACC	540
CTGTGTTGCC	CTCAGAGGCC	AAATTCTTGG	GCTCAGGGAC	TGGCTTTCGG	CCTATTGGTG	600
GTGGAGCTGG	GGTTCTGGCA	AGGAATTTCA	GGCAGCGCTT	GGAGGCAATG	TTCCCCGAGA	660
${\tt GCAGTTCACG}$	GTGGTGATGT	TGACTTATGA	GCGGGAGGAA	GTGCTTATGA	ACTCTTTAGA	720
GAGGCTGAAT	GGCCTCCCTT	ACCTGGAACT	CTCGAG			756

- (2) INFORMATION FOR SEQ ID NO:1447:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 359 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

GAATTCGGCC TTCATGGCCT ACCTGCCTCG AGGTCACTGG GATCATCTGA ACAGAAGTGC 6 ACAGGCTACT TGTACAGAGA AAAAATTAAT ACTCAAAGGA AATCTTCATT TTTTAGATTG 12 ACTTTGGGAA TTTGAATTTT CATCAGTGCA AATATAAATT TCTCTATCCT GCTCTGAGGC 18 TAATTGGTAC CATATTTTCC CTTTGTGTCT TGTGACTCTG CCACATCCCA TCTCATCCTG 24 GCCTCTGAGT CAAGAACCCA GTGAACTGAC TTTCTAGTTC TAGAAGTTCC GCTGCAAGGC 30 CAGGAAAGCT TGAGAAAGGT ATTGTGGAAG AAGCAAAAGGT AGACCCCAT TCACTCGAG 35	0 0 0
(2) INFORMATION FOR SEQ ID NO:1448:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:	
GAATTCGGCC TTCATGGCCT AGGGAAAATA AGTTAATTCT AAATCAAATC	0
(2) INFORMATION FOR SEQ ID NO:1449:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:	
GAATTCGGCC TTCATGGCCT ACTTTTCAAA AGCAGCTTTG CTCTACTGAT TTGGGTAAAA 6 GCTTAGTTGC AGTTGGNTTG GGAGGAAATG GGAGCAGAAA ATTTGAGAGA GTGAGTGTAG 12 ACAACTCTTT CAAGGAATTT CGCTATAAAT GGGAGTAGAG ATCTGAAGAC TGAATAATTA 18 GCAAACTGAA AAGTGGGAAG ACGTAATTCT CTTATTATTT CATTTTCTT AGTGAAATAA 24 GAGGTGAAGT TCTCTGAGTA ATAGGAGGGT CAAACAGGNG TTAGAAGTTC ACAAAGAAAG 30 GTCTCCGAG 30	0 0 0
(2) INFORMATION FOR SEQ ID NO:1450:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 545 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:	
GAATTCGGCC AAAGAGGCCT AGCATGTTGT GGCTGTTCCA ATCGCTCCTG TTTGTCTTCT GCTTTGGCCC AGGGAATGTA GTTTCACAAA GCAGCTTAAC CCCATTGATG GTGAACGGGA TTCTGGGGGA GTCAGTAACT CTTCCCCTGG AGTTTCCTGC AGGAGAGAA GTCAACTTCA TCACTTGGCT TTTCAATGAA ACATCTCTTG CCTTCATAGT ACCCCATGAA ACCAAAAGTC CAGAAATCCA CGTGACTAAT CCGAAACAGG GAAAGCGACT GAACTTCACC CAGTCCTACT 30	30 10

CCCTGCAACT CAGCAACCTG AAGATGGAAG ACACAGGCTC TTACAGAGCC CAGATATCCA CAAAGACCTC TGCAAAGCTG TCCAGTTACA CTCTGAGGAT ATTAAGACAA CTGAGGAACA TACAAGTTAC CAATCACAGT CAGCTATTTC AGAATATGAC CTGTGAGCTC CATCTGACTT GCTCTGTGGA GGATGCAGAT GACAATGTCT CATTCAGATG GGAGGCCTTG GGAAACACAC TCGAG	360 420 480 540 545
(2) INFORMATION FOR SEQ ID NO:1451:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:	
GAATTCGGCC AAAGAGGCCT ACAGTAAGCA GATGAACTTG CTTGCTGTTC TCGAAGTGAG GACTGAAGGG AACGAAAACT GGGGTGGGTT TTTGCGCTTC AAAAAGGGGA AGCGATGTAG CCTCGTTTTT GGACTGATAA TAATGACCTT GGTAATGGCT TCTTACATCC TTTCTGGGGC CCACCAAGAG CTTCTGATCT CATCACCTTT CCATTACGGA GGCTTCCCCA GCAACCCCAG CTTGATGGAC AGCGAAAACC CAAGTGACAC AAAGGAGCAT CACCACCAAT CCTCTGTAAA TAATATTTCA TACATGAAGG GAACCCTCGA G	60 120 180 240 300 331
(2) INFORMATION FOR SEQ ID NO:1452:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:	
GAATTCGGCC AAAGAGGGAA GGGAAAATTT CAAGTCAGAT AGAATTCTAT ATATACCATT TCTTTGGAAC CTTCAGCCCT CAAGATTCCA ACATCATGAC CTCAGTTTCA ACACAGTTGT CCTTAGTCCT CATGTCACTG CTTTTGGTGC TGCCTGTTGT GGAAGCAGTA GAAGCGTATA TGCACGAAAA AGAAATGGAC AGATGTGACT TTGAAAGGCC TACTGAGTCA AACCTCACCC TGAAAACCTT TGCAGCACTC GAG	60 120 180 240 263
(2) INFORMATION FOR SEQ ID NO:1453:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 558 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:	
GAATTCGGCC AAAGAGGCCT AATTTTAAAG CCCTGCTAAC TTCAATGTCT AGGTCACCCA TTTGTTTATT TTTATGGTCT TTTTTCATCC TGATTTTTGG TCATTTGGTC CCGTCTTATG GCATACCTGG TAATATTTTA TTGAATCCTT AGTACTGTAC ATGAAAAATT GTAGAGGCCC CAGTAGTTTT CTTTCTCTGA AGAGGAGTCA CCCTTTCCTT CACTAGACAG TTATGTTGGG	60 120 180 240

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GGTTATATAC	CTTACTCCAA	TCAAAGATTG	AGCTGAGTCA	GAACTCTAAG	GGAGTTAAGT	300
TTTTGTGTCC	TCTGGGGACC	AGGGGTTCCA	ACTAAGACTG	TGATATTCAC	CAGGATCCAA	360
TTTCCCGATG	CCTCTTGAAC	TCTTATTCTT	ATCTTTTTAA	CACATCAAGG	CAGCTGGTTT	420
GCATTTTTCT	TTCTGTTCAG	CTTTTTAGCT	TCATCCTTTG	CAGCTTTAGA	AATTGACAGT	480
TGTCTTACAG	GGAAAAGTAG	CTGTGTAACA	AGCTCATGTC	TCTGCCTCTC	TTCCACTGAT	540
ATCTTAGCCC	CGCAGGAG					558

- (2) INFORMATION FOR SEQ ID NO:1454:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

GAATTCGGCC	AAAGAGGCCT	ACCTAAACCG	TCGATTGAAT	TCTAGAAATA	CAATGATTTT	60
AAAAAAGATT	TCCAAAGGCT	TTTTCTTTTT	TTCTTTTTTC	TNGAGACAGG	GTCTCACTCT	120
GTCGCCCAGG	CTGGAGTGCA	GTGACACAAT	CTCGGCTCAC	GGCAAGCTCC	GCACTGCCCC	180
CTCAGGTTCA	CGCCATTCCT	CCGCCTCAGC	CTCCCGAGCA	GCCGGGACCA	CAGGCACGCG	240
CCACCACGCC	CAGCCAACTT	TTACATTTTT	AGTAGAGACG	GGGCTTCACC	ATGTTGGCCA	300
GGATGGTCTC	GGTCTCTTCT	GCCTCGAG				328

- (2) INFORMATION FOR SEQ ID NO:1455:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 481 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

GAATTCGGCC	AAAGAGGCCT	ACTTGATGTC	TGTGACCCAC	ACNTATTCGC	ACACTCCCTC	60
CCCTTTTGAA	AATCCCTAAT	AAAAACTTGC	TGGTTTTTGC	GGCTAGTGGG	GCATCATGGA	120
ACCTACTGAC	ATGTGATGTC	TCCCCCGGAT	GCCCGGCTTT	AAAATTTCTC	TCTTTTGTAC	180
TCTGTCCCTT	AATTTCTCAA	GCTGGCCGAT	GCTTAGGGAA	AATAGAAAAG	AACCTAGGTG	240
AATATTGGGG	CAGGCTCCCT	GATGAAATGA	TATATATTCT	TAAAATAAAC	TTTTCATCTT	300
TGCATATACG	TTTATATGCC	GAGTTTTCTC	CAACCTTGTC	TTACAGCACT	TTGTATACTA	360
CATTCTAGCC	ATACTAAACT	CTTGCAGTTC	CTGAGACATG	TGCTGTATCC	TATTTCTTCT	420
GGTCCTTTTC	TCATTGATTA	ACTACCTGGA	GCATACTTTT	AATTCAGTGT	CAGCGCTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:1456:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 393 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

GAATTCGGCC	AAAGAGGCCT	ACTTCACCTT	CAAGTCCCCT	TTCTCAAGAA	TCCTCTGTTC	60
TTTGCCCTCT	AAAGTCTTGG	TACATCTAGG	ACCCAGGCAT	CTTGCTTTCC	AGCCACAAAG	120
AGACAGATGA	AGATGCAGAA	AGGAAATGTT	CTCCTTATGT	TTGGTCTACT	ATTGCATTTA	180
GAAGCTGCAA	CAAATTCCAA	TGAGACTAGC	ACCTCTGCCA	ACACTGGATC	CAGTGTGATC	240
TCCAGTGGAG	CCAGCACAGC	CACCAACTCT	GGGTCCAGTG	TGACCTCCAG	TGGGGTCAGC	300
ACAGCCACCA	TCTCAGGGTC	CAGCGTGACC	TCCAATGGGG	TCAGCATAGT	CACCAACTCT	360
GAGTTCCATA	CAACCTCCAG	TGGGATCAGC	ACG			393

- (2) INFORMATION FOR SEQ ID NO:1457:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

GAATTCGGCC	AAAGAGGCCT	AGTGTGTGTG	TGTGTGTGTG	TGTGTGTGTT	TTATCTCCTT	60
CAACTCTGAC	CACCTGGAAG	TCAGCCTAAT	CTCTGCCCTC	GTGTTGATCT	TTAATTCAAC	120
ATTTAATTAC	CTATCTTGGT	ATCCATATGA	ATTTGATTGT	TTTTTTGGCT	TTTTTTGAAC	180
TCATAAAAGG	TATCCAAGTT	CCTGGAGGGC	ATAGTGCCCA	TCTCCTCCCA	TCCACCAGTG	240
GACATTCTTT	TCCAAAAGAC	ACATGG				266

- (2) INFORMATION FOR SEQ ID NO:1458:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

GAATTCGGCC	AAAGAGGCCT	AGGTTGTAGT	TACTTTCAGA	GTAGATACAG	GGTTTTAGAT	60
CATTACAGTT	TAAGTTTTCT	${\tt GACCAATTAA}$	AAAAACATAG	AGAACAAAAG	CATATTTGAC	120
CAAGCAACAA	GCTTATAATT	AATTTTTATT	AGTTGATTGA	TTAATGATGT	ATTGCCTTTT	180
GCCCATATAT	ACCCTGTGTA	TCTATACTTG	GAAGTGTTTA	AGGTTGCCAT	TGGTTGAAAA	240
CATAAGTGTC	TCTGGCCATC	AAAGTGATCT	TGTTTACAGC	AGTGCTCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:1459:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 289 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

${\tt GAATTCGGCC}$	AAAGAGGCCT	AGTTTTATGA	GAGGGTTTCC	ATTAAGAAGT	TAATTGAAAT	60
TCTTTATTTA	TGTAAAATGA	AATTTCCAAT	TAAATTATTT	CACACAGCAT	TTTTTCCCCT	120
TAATTTCATT	AGTTTTTTTA	TTTCTTGGCC	GACCCAGGCC	AGGAGCTTAG	GGAAAATGAT	180

GAGGCCTCTT TTACGCTGTA GTCCTGCAAA TGCTGTGTTT TATTCCCCCT CCCCTGCTCA GCACTCACCC ACGACTGACA CATGGGGTAC ACACACACA ATACTCGAG	240 289
(2) INFORMATION FOR SEQ ID NO:1460:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:	
GAATTCGGCC AAAGAGGCCT ACACCTGCGT TGGAACATCT GATCCAGTGA TAGCACGTCA CTAGGTGCCT TAATTAATAA AGCCAAAATA TCTTTCACCT AGCAAACTAA TCGTATTCAC TTTTACTCTC CCATTTTTAA TTAATCTTTC CTATTTCATT TCACCCTCTC ATCTCTTTCC TCTATTGGAT TATCTCAGGT ATCTAATCCA ATTCACTACT GTTTAATGAA TGTAATTGCA ACCAGTCTGC AATTCCTAAG GTTTTGTTTC TTTGCTTTTT TCTTTTGTAG TCCATCTCTT TGCTACACTC AAGCAGGTCT AGAATTCGAG	60 120 180 240 300 330
(2) INFORMATION FOR SEQ ID NO:1461:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:	
GAATTCGGCC AAAGAGGCCT AGGGACAGTG ATTATAGGAC TCCACACATG CAACTGAATC TAGCATTACT GACTTTAAAT TTTTTGAGCC TATCTAAAGG CCAGATGCTA TCAGCAGCTG ACCACACACACACACACACACACACACACACACACACA	60 120 180 240 300 360 383
(2) INFORMATION FOR SEQ ID NO:1462:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 375 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:	
GAATTCGGCC AAAGAGGCCT ACGATGACGT CACCGTCACC ACCGGCGTGA AGCGAGACAG TGGTGAGGGC TTCTGGACTG GATGGAGGAC CTGAAGACAT GAGGTGAGG CACAGGTAGA AGAGAAGATT CTCACCATCG CTGATTCACA CAAAAGCATT TCTCCAAGTG GTTGCAGATG ACATGATTTC CCAAAGTGTT AGAGCTGAAG TGTGTTTCCT TGTGTATATA TACTGTGGTT CCTTTATCCC TTCATCTGTG GATAGACAGG TGCAACCGTG TGGTTCCCCA CGATATGATT	60 120 180 240 300

TCATTGTGGT TTTCTGTCTG AAGAGTATCC CAGTATGTAC CTGTGGAGCA GCTTCTTTAT

360

CCCTTCTTAC TCGAG	375
(2) INFORMATION FOR SEQ ID NO:1463:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:	
GAATTTGGGC GGAGACACAA ATTCAAATCA TATCAACCTG GTAAAGAATT TGGATTTTAT TTTGAGTGTG TTAGTGAGTA TTGCATGGCT TTGAGCAGAG AAAGGATGAT TTATATGTTT AAAAGAGTGC TTTGCCTCTT ATATGTGGAA GAGATTGTAG GAGGAGGACT CGAG	60 120 174
(2) INFORMATION FOR SEQ ID NO:1464:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:	
GAATTCGGCC AAAGAGGCCT AGTTGCGGTT TAAATTTCCA AATGTATGGC ATTTGCTTGT TTTTTAAGTT GATTTCTAGT TTTATCACAT TGTGGTCAGA GAATGCTGAG AAAGAGCTCG AG	60 120 122
(2) INFORMATION FOR SEQ ID NO:1465:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:	
GAATTCGGCC AAAGAGGCCT ACTTGAGCTT TTTTCATGTG TATATATTTA TGCTTCTTTT CTAAAAAAAA TTGAGATGGA AATTCACATA ACAGAATTAA CTAAAGCATA CATTTCATTG GTATTTACTA CATTCACAAT GTTGTGCAAT CATTACCTCT CTCCAGITCT AAACATTTCA TCACCCCAAA AGGAACCCCT AAGCGGTCAC TCCCCACTCC ACTGCTCTCC ACAGCCCCTG GCAACCAGCA GTCTGCTTTG TGTCTCAATG GATTTACCTA CTCTTGATAG CTCTACAAAT GGAACAATAC TCGAG	60 120 180 240 300 315
(2) INFORMATION FOR SEQ ID NO:1466:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 175 base pairs (B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
- (D) TOPOLOGY; linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

GAATTCGGCC	AAAGAGGCCT	AGGTAAGAGA	AACGACCAAT	TCTACCAGTT	ATTCTACAAT	60
GTGGGTTTTC	ACTGCTCTGT	TCACATGCCT	TATTCAGACT	TCTTGTGGTG	GTCAATTGCT	120
AGATGGTCTG	TTGGAATTAT	CTGCTGTCAT	ACATCCAAAA	AGGTCTCACA	GAGAG	175

- (2) INFORMATION FOR SEQ ID NO:1467:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GAATTCGGCC	AAAGAGGCCT	AGAAGGACAC	CTCCATCCAT	TCCACGCAGT	TGCTCAAAGC	60
AGAAATTTTC	AGTGCAAGTC	TTGATGCTGC	GCCGTCCCCC	ACTCCCTACA	TCAGAACGCA	120
TCCCTCATCT	GGACTCCAGC	GGTGGCTTCT	TGATGCTGCG	CGGTCCCCCA	CTCCCTACAT	180
CAGAATGCAT	CCCGCATCCA	GACTCCAGCG	GTGGTGCTCT	ACCTGCACGC	TGTTGCCAAG	240
TCCAAGCTAC	CATACTCCTG	CCTGAGCTAT	GACAACAGCC	TCCTCACTGA	TCTCCCCTTT	300
CTTCCCTTTG	CCTCCTCCAG	CTCATTTTTC	ACAGTGTAGA	ATGACTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:1468:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 419 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double(D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC	AAAGAGGCCT	ACTATACTAA	AATTCTGTGC	AAAAAGATGC	TTGAAATTAT	60
TGTAGAGACT	GAATCTTTGC	TGCTTGTTAT	AAATATTGCA	GGGCATAAAC	CTTCCATTCA	120
TAGGTTCATC	AGCTTTTATG	ATTGGGAGTG	ACAGGGAGGC	AGCATTGCAG	TCCTTAGTCC	180
TAGGTGTGGT	CTAGAATTTA	CCCTGTATTT	AAGTCACTTT	GGAATAGAAG	TTTTTTTTCT	240
CGGACAGGAT	ACACTATATA	TTTTTAAATC	TCCTCCCATA	GTCGTAGTGC	AGAGATATAA	300
ATAGAAGTAC	AGGTAAGAGA	TGTCTTCTGC	CTTTCAAACC	CTTCCTAAGT	TTGTGTGCTG	360
CTTTAACTTT	ATTCACATAG	AGCAGTCTGT	TTTATTACTC	AGGATATGGG	CCACTCGAG	419

- (2) INFORMATION FOR SEQ ID NO:1469:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 612 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC	AAAGAGCGAT	GGGGACAAAG	GCGCAAGTCG	AGAGGAAACT	GTTGTGCCTC	. 60
TTCATATTGG	CGATCCTGTT	GTGCTCCCTG	GCATTGGGCA	GTGTTACAGT	GCÁCTCTTCT	120
GAACCTGAAG	TCAGAATTCC	TGAGAATAAT	CCTGTGAAGT	TGTCCTGTGC	CTACTCGGGC	180
TTTTCTTCTC	CCCGTGTGGA	GTGGAAGTTT	GACCAAGGAG	ACACCACCAG	ACTCGTTTGC	240
TATAATAACA	AGATCACAGC	TTCCTATGAG	GACCGGGTGA	CCTTCTTGCC	AACTGGTATC	300
ACCTTCAAGT	CCGTGACACG	GGAAGACACT	GGGACATACA	CTTGTATGGT	CTCTGAGGAA	360
GGCGGCAACA	GCTATGGGGA	GGTCAAGGTC	AAGCTCATCG	TGCTTGTGCC	TCCATCCAAG	420
CCTACAGTTA	ACATCCCCTC	CTCTGCCACC	ATTGGGAACC	GGGCAGTGCT	GACATGCTCA	480
GAACAAGATG	GTTCCCCACC	TTCTGAATAC	ACCTGGTTCA	AAGATGGGAT	AGTGATGCCT	540
ACGAATCCCA	AAAGCACCCG	TGCCTTCAGC	AACTCTTCCT	ATGTCCTGAA	TCCCACAACA	600
GGCGCACTCG	AG					612

- (2) INFORMATION FOR SEQ ID NO:1470:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 220 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAAAAGCCAA	GACTTTAACT	TTCATTACAT	ATCTAATAGT	TGATATCACC	AGTTACCATT	60
TTGAATTTTG	TATAGTACTA	GGTTAGAACA	TTGCTTAATC	CTTTTAAAAA	AAATGCATTT	120
ACGTAGAACT	CGAGCAGGAT	GTTTGGCCCC	GATGTTTTTT	CTTCATACTC	TTCTGTCGCC	180
TCCTCCCATT	TCTGCACAGT	TCTCACCCAC	TACTCTCGAG			220

- (2) INFORMATION FOR SEQ ID NO:1471:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 349 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCGGCC	AAAGAGGCCT	AGGGCATCAT	GCAGACACAT	CTGTTAAAGC	AGGAAAAAA	60
AAACCATGTG	GAAGATTAAG	CTAGGCAGAG	TGCCTGAAAA	GCCCTCTGCA	ATAAGTTGAG	120
CTGGAAAAAC	CTCCATATCT	AAAGATGCTT	TAATCATCTC	AAGAACACCA	ACAACATTTT	180
CTATTATAAT	ATAACTATGA	TAGATGTGAA	TCTACCTCTT	GGATTAAGGC	ATTAATTTA	240
TAGCTATCAA	ATTTTCACAG	ACACCATTTT	CACTACTCTG	AGTTGCATCT	CTAACAAGCT	300
TCTTTAGCCT	CTGCCTACAG	ATTTCAGTGA	CAAAGCCATT	CAGCTCGAG		349

- (2) INFORMATION FOR SEQ ID NO:1472:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 310 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCGGCC	AAAGAGGCCT	ACAACAAACC	ATTCTTCAGC	ACCTTTGCAA	AAACATCTAT	60
GTTTGTTTTG	TACCTTTTGG	GCTTTATTAT	TTGGAAGCCA	TGGAGACAAC	AGTGTACAAG	120
AGGACTTCGC	GGAAAGCATG	CTGCTTTTTT	TGCAGATGCT	GAAGGTTACT	TTGCTGCTTG	180
CACAACAGAT	ACAACTATGA	ATAGTTCTTT	GAGTGAACCT	CTGTATGTGC	CTGTGAAATT	240
CCATGATCTT	CCAAGTGAAA	AACCTGAGAG	CACAAACATT	GATACTGAAA	AAACCCCCGC	300
GGTACTCGAG						310

- (2) INFORMATION FOR SEQ ID NO:1473:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

GAATTCGGCC	TTCATGGCCT	ACAACTTTAA	GATTAGCTAC	TTTGAATAAT	CTCAGTAGGT	60
TCTGGGGCAC	AGGAGCTGCC	CCTCTTGGTC	TGAGATTTGG	CCATGGGGTG	ATTAGGACAG	120
GTATAGTGGC	ACAGAGTGTA	AAAACCCCAT	AATGGTGTGG	ATTCTGGATT	GCTTAGTTTG	180
CATTTGACAA	GTGCATGCCT	GGGAGGAGGA	CTCCTCTTAG	TAAAGAGGAT	GGGAGGCAAG	240
AAGAGAGGCC	AGAGGCCAAG	ACAAGGTAAC	TTAGGCATAG	CATCAGGTTG	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:1474:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 510 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

GAATTCGGCC	TTCATGGCCT	AAAAAAGTAT	GCAACACTCA	GTTTATTTAA	TACTTACAAG	60
GGGAAATCAT	TAGAAACACA	GAAAACCACA	GTTGCAGCTC	GACATGGATT	ACAGAGTCTT	120
GGAAAAGTCG	GTATTTCACG	GCGTATGCCT	CCACCTGCTA	ACCTCCCAAG	TCTTAAAGCA	180
GAAAACAAAG	GCAATGATCC	TAATGTAAAC	ATTGTACCTA	AAGATGGCAC	AGGGTGGGCA	240
TCAAAACAAG	AGTAACATGA	AGAAGAAAA	ACACCAGAAG	TGCCACCAGC	ACAGCCAAAA	300
CCTGGGGTTG	CAGCTCCCCC	AGAAGTAGCA	CCTGCTCCCA	AATCATGGGC	CAGTAACAAG	360
CAAGGTGGGC	AAGGAGATGG	AATCCAAGTG	AATAGTCAGT	TTCAGCAAGA	ATTTCCCAGC	420
CTGCAGGCAG	${\tt CTGGGGATCA}$	GGAAAAAAA	GAAAAGGAAA	CAAATGATGA	CAACTATGGA	480
CCTGGACCCA	${\tt GTTTACGTCC}$	ACCACTCGAG				510

- (2) INFORMATION FOR SEQ ID NO:1475:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

GAATTCGGCC	TTCATGGCCT	AATCCATTCA	TTTGATGGAC	ATTTTCTAAG	TACCTGTGAG	60
CCAGGTGCTG	CCATTTCAAA	GTCTCTTCTT	ACCACGCTCC	TCAGTGGCTA	GACATTTTCA	120
CGTGGCCAGA	AAGTCCCGAC	TCTTGCTGGG	CGTCCCTGGA	CAAGTTGCCT	TCCTCCTCTG	180
AGCTTGGCGC	TCCCCATCTG	TATAGTGGAG	ACCCTTGGCC	CCCCTCTGTA	CGGAAGGGCC	240
GATGCGAAGC	TGCAGTTAAA	AAAGGCTCAC	ATGCTCCTAG	CCTTGTGCAG	TCAGGAGGGG	300
AGACCAGGAC	AGTTGGAAAT	TATGATTGCA	AATGGCTTTG	CATTTTAGAT	CATTCGTGTG	360
TGTGGATCAG	AGAAACGCAC	AAGTTCCCTG	GCATCTCGAG			400

- (2) INFORMATION FOR SEQ ID NO:1476:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 465 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

GAATTCGGCC	TTCATGGCCT	ACCACATTTT	GTCAGCAGAG	AGCCTTTTAA	ACTTGGATTC	60
CAACTTCCTG	TTGTCTAAAC	GGAACCCTCC	GAACGTAGGA	CTTATAGGGG	AAGCTGCTGT	120
GCATGTCAAA	AAAACTACTA	ATCAGAATGA	GCTTTGTCAT	CCAGAGCCAG	AACTGCTGCA	180
GAAATTTTTA	TAATTTTGCA	ACTTCTTTTT	TTACAAGGAA	CTTTTGTGCT	ACTACACATC	240
AGGACTTTTG	AAGCATCCAA	TAAATCCATT	TAATAAGTAT	GAGCATGTGT	CTGAGTGGAC	300
AAGAAAGTGA	AACCATCCAT	GCTACATTGG	ATAATTTTTC	CTCCCCCAGA	CTGGACAGGG	360
AATCTCAGCT	TTCAAAACAG	AGTAACCTGG	CTCCACTTAC	AAAGCTGCAC	AGGCATTAAA	420
GATCGTGCTG	CCTTTGTTAG	GCAGATTTGG	AGGGGAGAGC	TCGAG		465

- (2) INFORMATION FOR SEQ ID NO:1477:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 377 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

GAATTCGGCC	AAAGAGGCCT	ACATGTAGCT	ATCCTAAGAC	GTATTTTATT	TTGAGCCACT	60
TTCTCAGAGG	GAATTGGGTG	GGTGTGGTCG	TAAGAACACC	TAGAAAATAG	GGGTGAAACC	120
TTTATGGGGC	CAGGGGAGCC	ATGGCAGAGG	GTGGAGTGGG	GGATAGAAGC	CTTCAGACTC	180
CTCCGCCCCA	GCCACTCTGC	ACCTGGGGCC	TTTCAGCTGT	TAAAATGAAA	AGCCAATTAT	240
CTTCTGTAAA	TGAGGGAAAA	AAAGAAGGAA	TAAAAGTGTC	TATTATGTAT	GCTGATATGC	300
ATAACACTTC	AAATAAAAGG	ATATATAAGC	ACTTGACAAA	TTGAGGGAGA	AGGAGGGAG	360
AGTGCTGGGC	GCTCGAG					377

- (2) INFORMATION FOR SEQ ID NO:1478:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

GAATTCGGCC	AAAGAGGCCT	AGAGATTCAG	TTTATTCTAT	ACTCAGACTT	TGGTATCCCC	60
TTAGATGCCC	ATGTCAAAAA	TGAGAAAGTT	GGTGACATGG	TATGGCATTT	TATTGCTTTT	120
TGTTTGTTTT	CCATTGCTAC	TTTCACTCAA	ATTCCAAGGA	AATCACAGAA	GAAGGGCTTT	1.80
TGGTGACCTA	AAAGTAGAAA	TGAAAGCAAC	AAAATGCATT	CTGTCCAGCA	GTACACTGAA	240
GACAAAAAAT	GTAGTTGAAA	AGTCTCAGGG	AGCGCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:1479:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 491 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

GAATTCGGCC AAAGAGGCCI	AATTTGCTTT	GCCCAGTAGT	TGGAAAGTGA	ACTCGACTCG	60
TGATGGTTCT CCTGTCACTI	TGGTTGATAG	CAGCCGCTCT	GGTAGAGGTT	AGGACTTCAG	120
CTGATGGACA AGCTGGTAAT	GAAGAAATGG	TGCAAATAGA	TTTACCAATA	AAGAGATATA	180
GAGAGTATGA GCTGGTGACT	CCAGTCAGCA	CAAATCTAGA	AGGACGCTAT	CTCTCCCATA	240
CTCTTTCTGC GAGTCACAAA	AAGAGGTCAG	CGAGGGACGT	GTCTTCCAAC	CCTGAGCAGT	300
TGTTCTTTAA CATCACGGCA	TTTGGAAAAG	ATTTTCATCT	GCGACTAAAG	CCCAACACTC	360
AACTAGTAGC TCCTGGGGCT	GTTGTGGAGT	GGCATGAGAC	ATCTCTGGTG	CCTGGGAATA	420
TAACCGATCC CATTAACAAC	CATCAACCAG	GAAGTGCTAC	GTATAGAATC	CGGAAAACAG	480
AGCCACTCGA G					491

- (2) INFORMATION FOR SEQ ID NO:1480:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 523 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

GAATTCGGCC	AAAGAGGCCT	AATTCATTCA	GTCGTCATGA	GTTGAGTGCT	TACTACATGC	60
AAGGCACTCT	GCTAGTTATA	TTCTAATAAT	GCAGAGATAA	TTAGACATGG	TTCCCGCCCT	120
CAAGAAGCTC	ACAAAAGTAT	TCAGGAAATA	ATGCAGACTA	GTGATTTTGC	ATTAAAATTA	180
TTTTTGAAGG	AAGCAGACAC	AGCAGTATTT	ACCTGTAGGT	GGAGCAAGTA	ATAAGCCATG	240
CTGTGCAATA	TATACATAAA	GCTTCTGCTT	CTCATGGGAA	TTTAGTTACA	GTGCTTGGAA	300
TGAGAAGGGG	AAGGAAAGAA	TTAACAAATG	CCAAGATTTC	TGGAGCAGAT	TGTACAGCTG	360
TGACTTTGGA	AAACAGAAAG	TAAGACCCTC	AGAAAACCAA	TGAAGTCTAA	GAGAAATAAA	420
ATTTAGTGGA	CAGGTATGAA	AAGTGTAATT	GCGCCTAACT	ACCAGATGGA	GACCTTCAGA	480
ATGGGCTATC	CTTAGAGTCT	AGTACATCAA	GAGACCCCTC	GAG		523

- (2) INFORMATION FOR SEQ ID NO:1481:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

	AAAGAGGCCT AAAAAAAAAA AAAAAAGAAG ATATAAGCTA CTAGTATCAA	60
AAATGAAAGA	GGGGCTGTTT CTACTGATCC TGCAGACACT CGAG	104
(2) INFORM	ATION FOR SEQ ID NO:1482:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TC70LOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION; SEQ ID NO:1482:	
GAATTCGGCC	AAAGAGGCCT AAACTGAACT AAGAGATGCA CCTGAGAAAA CCTTGGCTTG	60
CATGGGTTTG	GCAATACATC AGGTGTTAAC TAAGGACCTT GAAAGGCATG CAGCTGAGTT	120
ACAAGCCCAG	GAAGGATTGT CTAATGATGG AGAAACAATG GTAAATGTGC CACATATTCA	180
	GGAATTTGAT GTATTAAAGT ATTACTTAGA ATGGGACATT GAAGGCCATT	240
	NACGCTCATT TTATAAAAAT GAGGAAATCA GTAAAAAGGA CATGAGTTCC	300
TTGCCATCTC	ATTGATCATC ACACTGAACA ACTCGAG	337
(2) INFORM	ATION FOR SEQ ID NO:1483:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 168 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	

- (2) INFORMATION FOR SEQ ID NO:1484:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 478 base pairs

ACCAGAAATG GAACTGATGC CAGAAAGACT ACAGCAACAA TACTCGAG

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

CGATTGAATT CTAGACCTGC CTCGAGAGCG CGCTGTTGAA TACCCAGTAT GATGGTCCTT

AGCCTTCTTA GACCTTTCCT GTACCACTAC CTCTATGCCT TTTGCCAAGT CCAAGTGTTC

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

GAATTCGGCC AAAGAGGCCT AGCAACCGCG CCTGGCTGCC TTTTCATTTT TAAAAACGTC

585

60

60

120 168

AGTGTCGCTC	CCACACAACA	TGCAAACCCT	CCTGCCGAGC	TGCGACCTTC	GCCTGTCACG	120
				CGTGGCGCAC		180
TTTCATGTTT	AGCTTTTGAT	TGTGCTTATT	GTCCATTTGT	ATTTCTTCTT	CTAAGTGTCT	240
GTTCAAGACT	TTTCCGTCTT	GGCTGGAGGT	GGGAGGTGCC	TGCTCCTGTG	TTTTCTGGCA	300
TCTTTCTCTG	CTGTCTTTGT	GTGTCTGCAC	TCAGGGAGTT	TCCCTGGGGT	GTGTGCCTAG	360
AGAGGTGCTG	GTTGTACATT	TCAACGTAGG	GACAGATTCC	CAGCGTGTCT	TTAAAGGAGC	420
TGTGCCGCTG	TGTGCTCACT	TGACTCGCCG	GCGTTCTTGT	TTCTCCAGGC	CTCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:1485:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 307 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

GAATTCGGCC	AAAGAGGCCT	ACACACTGCA	AGAACAGAGC	CAAGAACCTA	CCATGTACCC	60
TTTACTTGGA	TTTATCATTA	CTGTTTTGCA	CATTTGCTTT	ATCATTCTTG	TTATATTTAC	120
ATATAGTTCC	TTCCCCTTGG	ATTATTTGAG	AACAAACTGC	AGAACTCACA	CCTCTTTCCC	180
CGAAGAACTA	GGCATTAGCA	CATTACAAGA	ATACGATGAT	AGAGATCAGA	AGTTAAATGC	240
TGATGAGATA	TTCCTGTCTA	ATCCACGAAC	CTTATTTCAT	TGTCATCAGT	TGTCCCAACA	300
GCTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:1486:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 579 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

GAATTCGGCC AAAGAT	GCT GTCCTTCAAC	GTGTTCATTA	TGAAGTTATT	AGTAATACTT	60
TTGTTTTCTG GACTTA	TAAC TGGTTTTAGA	AGTGACTCTT	CCTCTAGTTT	GCCACCTAAG	120
TTACTACTAG TATCCT	TTGA TGGCTTCAGA (GCTGATTATC	TGAAGAACTA	TGAATTTCCT	180
CATCTCCAGA ATTTTA	CAA AGAAGGTGTT	TTGGTAGAGC	ATGTTAAAAA	TGTTTTTATC	240
ACAAAAACAT TTCCAA	ACCA CTACAGTATT (GTGACAGGCT	TGTATGAAGA	AAGCCATGGC	300
ATTGTGGCTA ATTCCA	TGTA TGATGCAGTC	ACAAAGAAAC	ACTTTTCTGA	CTCTAATGAC	360
AAGGATCCTT TTTGGT					420
AACAGATCAA GTGCTG	TGC TATGTGGCCT	GGTACTGATG	TACCCATTCA	GGATACCATC	480
TCTTCCTATT TTATGA	ATTA CAACTCCTCA	GTGTCATTTG	AGGAAAGACT	TTATAATAAA	540
ACTATGTGGC TAAACA	ATTC GAACCCACCA	GTCCTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:1487:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGAGAGTC	ACGCTTAGTT	60
TGCCATTGTG	CCAGCTAGTG	ATATTGCTGA	TGTTTTTGT	${\tt GGGTGTTCTT}$	TTAGCAAAAC	120
GTGAATGAAT	GCATGTTTAC	AGGGATGCTC	TGGACTGGAG	GATGGTGAAA	TCCATCGTGG	180
TTGTCCCTCT	CCCTGAATGT	CCTTTTGTAG	CCAGGGCATC	TTTCCAATAT	GAATTATTAA	240
GCCTTAACTT	ACATTTTTGC	ATAACTTATA	ACTCTCCATT	ATATATTTGG	TTACATTTCT	300
TAGATGTTTT	CAACATTCTT	TATTAAAGTT	ATTTTATCAG	CATCCGCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:1488:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 422 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTCGGCC	AAAGAGGCCT	ACAAATGGGC	AGAAGTGAAA	CAGTCTTGTG	AGATACCTGT	60
TTTTTAAAAC	TCCATTTTAG	AAAAGGAATT	AACTAGGACT	TTATATCTCT	TCGTTCAATA	120
TAATTTTAAA	GAAGAATTGT	TGAAAAGTAG	ATATGTTTTG	CCATTTGCTG	AGAATATTTT	180
GTACGTTAGC	TTGTCTCTTA	CAAAAACTAA	ATGTGTTCCT	ACTTCTGATA	ATGTATGTCA	240
TTAAAATT	TGGAATGGCC	AAGATAAGTT	GCTCTGCATC	TGTCCTTCAT	ATGGCTCCTG	300
AGCACAGCTC	AGTGACTGGC	CCTTGCAGTG	CTTCTACCGT	TGTAATGGGT	AAAACCAGGG	360
GAAACTGCCT	TGCTCTTGAG	CTTGAGCAGG	TTAATCAAAA	GGATAGAGCT	TCCACTCTCG	420
AG						422

- (2) INFORMATION FOR SEQ ID NO:1489:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 293 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTCGGCC	AAAGAGGCCT	AGAGAAAGAG	AGAAAGAAAG	GAGGGAAGGA	AAGGAAGGAA	60
GGAAGGAAAG	AAGGAAAGAA	GGAAAGAGAG	GAGACTGAAG	GGCCAAGGAG	GGCATACAAT	120
GGAAGATGAG	AGCTGTGCTC	CCGGGAGGCT	TGTACTCATC	AAGAAAGAAA	GGAGAAAGAG	180
GGGGAAGAAA	AGAAAAAAAA	AGAATAAAGA	AAGGAGAGAT	GAAGGAATAA	AGGAAAAAA	240
GTAGAAAGGA	AAGAAGGAGA	AGGGAGAGAA	GAAAGTAGGA	AGGAGAACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:1490:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 250 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTCGGCC	AAAGAGGCCT	AGTGCAACTA	CAGATAAGTA	AACTTCGACT	GGGTTTAGTA	60
ACACCTGTCT	TTAATATTTG	TCAGTGTACC	TACATTGATA	ACATTGACCT	TTGGAAAAAT	120
TGGACTTGTA	TTGTGTTATT	TCTCTAGCAT	ATTAGTCCTA	AAAAGTGTG	AGTAATAGGA	180
GATGGAGAGG	TGTTTGTGGA	TTGTCATTCT	GTGGTTCCTA	CAGCATTCAA	GTTGCGTCCG	240
TACGCTCGAG						250

- (2) INFORMATION FOR SEQ ID NO:1491:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 435 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

GAATTCGGCC	TTCATGGCCT	AATTCTTAGA	AATAAAGCCA	CTATCATGCA	GGTTATTTAC	60
AAGTAAAAAC	ATGGAGTCAG	CCCAGTAGAG	AAACGTTCAA	ATAGTGTGGC	TCCTGCTCTG	120
CCACGTTCTG	TTTATGACTT	TGGATATTTT	ATTTATCCTT	TCTGGGGTAG	TTTTTCAACT	180
TTAAGGTCCT	AATAAACTTT	TAGATTTTAT	GACCTGTCCT	CTTTAGCCCT	GTAAGATTTA	240
AATATTATAA	AGAACCTGAT	TTCAAAGACA	CTGGTAAACT	TGGACAACTA	AACAAGTCCA	300
AGTATGGTAC	TTATTTGTGT	GTGTGCATAT	ATTAACCTTA	TGCATATGCT	GTTTTCACAC	360
CTATTTAAAC	TGTTTTTGAA	AAACGTATAT	ATCAGTTTTT	GGAAAACAGA	AGAAGATTTT	420
AAACGGCTAC	TCGAG				•	435

- (2) INFORMATION FOR SEQ ID NO:1492:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 360 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

GAGTCTGTGG ATGAGGTCAC AGCACCATGT AGCTGCCAAG ACTGCTCTAT TGTCTGTGGC CCCAAGCCCC AGCCCCCACC TCCTCCTGCT CCCTGGACGA TCCTTGGCTT GGACGCCATG TATGTCATCA TGTGGATCAC CTACATGGCG TTTTTGCTTG TGTTTTTTTGG AGCATTTTTT 30	GCGATTGAAT	ACATGTTCAA	TAAGGACAAT	GGACAGGCAC	CTTTTACCAT	CACTCCTGTG	60
CCCAAGCCCC AGCCCCCACC TCCTCCTGCT CCCTGGACGA TCCTTGGCTT GGACGCCATG TATGTCATCA TGTGGATCAC CTACATGGCG TTTTTGCTTG TGTTTTTTTG AGCATTTTTT 30	TTTTCAGATT	TTCCAGTCCA	TGGGATGGAG	CCCATGAACA	ATGCCACCAA	AGGCTGTGAC	120
TATGTCATCA TGTGGATCAC CTACATGGCG TTTTTGCTTG TGTTTTTTTGG AGCATTTTTT 30	GAGTCTGTGG	ATGAGGTCAC	AGCACCATGT	AGCTGCCAAG	ACTGCTCTAT	TGTCTGTGGC	180
TAIGICATCA IGIGGATCAC CIACAIGGCG IIIIIGCIIG IGIIIIIIGG	CCCAAGCCCC	AGCCCCCACC	TCCTCCTGCT	CCCTGGACGA	TCCTTGGCTT	GGACGCCATG	240
GCAGTGTGGT GCTACAGAAA ACGGTATTTT GTCTCCGAGT ACACTCCCAT CGATCTCGAG	TATGTCATCA	TGTGGATCAC	CTACATGGCG	TTTTTGCTTG	TGTTTTTTGG	AGCATTTTTT	300
	GCAGTGTGGT	GCTACAGAAA	ACGGTATTTT	GTCTCCGAGT	ACACTCCCAT	CGATCTCGAG	360

- (2) INFORMATION FOR SEQ ID NO:1493:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 271 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

GAATTCGGCC TTCATGGCCT AAGCAGACAA TATAGTAGTA ATTTAAATTT TTGTTTCCTG ACTTTCTGTA GTCCCTAAAC AAACAACAAA AAATCCTAGT AATCTTAAAC TTTTACATTA ATAGAGATCC AAGAGAAAAT AAGCCATTTT TCACCATTGT GGACCCAAAT AAATCATAGA CATGGTATTA AGAAGCCCTT TTCAGTCTGG TTGCAGTATT ATTTCCTAC CTTTCTTTTT CCTGTTCCCT GCTGTATGCC CACAGCTCGA G	60 120 180 240 271
(2) INFORMATION FOR SEQ ID NO:1494:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:	
GAATTCGGCC TTCATGGCCT AATGGGTCAG AAATTTGGGC CTGGCTAAGT GGATCCTCCA CCCCAGGGTC TCTCACAAGG CTGCAATCAA AGGGCTGACT AGGACTTGGA ATCTCATTTG AAAGTTAGAT TGGGGAAGGA TCTGCTTCCA AGCTCACTCA GTAGTTACTG GCAGGATTAG GTTTCTCCAA GGTCGTTGGA CTAAGGGTCT CAGTTCCTCA CTGACAGTTG GCCTGAGGCT GCCTTCAGTT TCTTGCCATG TGGGCCTCCC CAGCATAACT GTTTACTTCA TCAAAACAAA CAAACTCGAG	60 120 180 240 300 310
(2) INFORMATION FOR SEQ ID NO:1495:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:	
GAATTCGGCC AAAGAGGCCT ACGTCGATTG AATTCTAGAC CTGCCTCAGC TCTAATTATG GTTCATGTTA GATTGTCTGC CCTTCCTCTT CCTCTTCTCT TTTGGGGAAA GATAATAGCA CTTAATAACG CCCTCGAG	60 120 138
(2) INFORMATION FOR SEQ ID NO:1496:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:	
GAATTCGGCC AAAGAGGCCT ACAAAATTGT TCCTTTTACG TACGACAGAC TTCTGAAATG GTAGTAGTAG TAGTGCCCTT TTTTTTCTC TTTTTAGCCC AG	60 102
(2) INFORMATION FOR SEQ ID NO:1497:	

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 483 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

GAATTCGGCC	AAAGAGGCCT	ATTTGTTTCT	TTGTACTGCC	TAACTTTAGA	AAGACCTGNA	60
ANCGGTANCA	TGAAAACATT	TTTAGAGAGA	ATTACCAGGC	${\tt ATTTTTGGTA}$	GAATGAGTGT	120
TTAATGGAAC	AGTCCAGAGA	ACTCATCAAA	GATGTTTATT	AAAACGCGCA	GACCTGCTCC	180
AATTAAGGGC	CCAGTCAGTG	GTGTTAACAG	TGAAGGGACT	GTTCCAGAGG	CGTGCTGCAC	240
GGGACGCCCA	CCCCAAATAC	AAATGGTTTG	CCAGTAGCTC	ACAAATGAAC	CCCATTGCCT	300
TGCACTTAAG	CTTCCTGAAG	CACATACATA	TCCTGCTTTG	TGCTTTCCGC	CCTATAGTAA	360
ACGCAAACCA	ATGGAGATGT	GAAGCAATCT	AATAGCAACA	AGGCAAACCT	CTACTTCCTC	420
TAAAGAGGAT	TGCATCCTCT	TGCTATCTTT	GCCGATGCTC	TCCTACAGAC	CCATCCGCTC	480
GAG						483

- (2) INFORMATION FOR SEQ ID NO:1498:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498;

GAATTCGGCC	AAAGAGGCCT	AAAATTTCAA	TAGGCTATAG	AGTTTTCCAT	GAGAGTGTGT	60
GTGTGTGTGT	GTGTGTGTGT	GTGTAAAGAA	CTCTTACATT	TCAGTGAGAA	AATATTTTCA	120
TTGAAAGGAA	ACACAGAACT	CGAG				144

- (2) INFORMATION FOR SEQ ID NO:1499:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 418 base pairs (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCGGCC	AAAGAGGCCT	AAAATAACTG	TCCAATTAAC	TGAACACTGA	GGTAGCTGGG	60
TACAGACTTT	AGCGGCTACA	TTTGACAAAC	ATTGCAATTA	CAAGCAGCAA	CACAAACCAA	120
CCTTGGGATG	GGGATAGAAA	TCTTTTCNTT	CTTCNTTCTT	GGGGGTTTGA	GACAGAGTCT	180
CGCTCTGTCA	CCCAGGCCGG	AGTGCAGTGG	CGCAATCTCC	GCTCACTGCA	AACTCCACCT	240
CCTGGGTTCA	AGTGATCCTC	CTGCCTCAGC	CTCCCAAGTA	GCTTGGATTA	TGGGTGCCCA	300
CCACCATGCC	TGGCTAATTT	TTGTATGTTT	GATAGAAACG	GTGTTTCACC	CTGTTGACCA	360
GGCTGGCCTT	GAGCTCCTGA	CTTCAGGTGA	TCCACCTGCC	TCAGCCCCCC	GACTCGAG	418

- (2) INFORMATION FOR SEQ ID NO:1500:
 - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCGGCC	AAAGAGGCCT	ACAAAGACCA	AGGTATCACA	TTCTGCCATT	AGCTGCTACC	60
TCTCCCTTCC	CCATTTTCAG	ACAGATTGAG	CCCACTTTTT	GTGTCCTCCT	CTGCTCTTAA	120
GCTGTTTCTC	ATCGTGGGTG	CTCAGCAACT	TGTCTGCTCT	CACTCTAGTT	TCTATTTGCT	180
TCCCTGAAAT	TAGCCTTTAA	CTATGCCCAG	ACAAGCCAGA	GCCTTGCCTA	AACTTCTAAT	240
TCCTCTGTGC	TTCTTAGTGT	ATCCTTTCTG	CCTGCTTGCC	TGCCTGCCTT	CCTGCCTGCT	300
TGCCTGCCTT	ACTGACCCTT	TGCCCCACGC	TCTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:1501:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 105 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1501:

GAATTCGGCC AAAGAGGCCT AAACCGTCGA TTGAATTCTA GACCAGCCTC ATCTCCTGTT 60 105

- (2) INFORMATION FOR SEQ ID NO:1502:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 701 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1502:

GAATTCGGCC	AAAGAGGCCT	ACTGTGAACC	TAAAACTCCT	ATAAAGAAAA	GTAAAGTCTT	60
			ATTTTCCCCA			120
CAGATGTGAT	TTCTGTGTGG	CTAATCAGAT	GCCCTTGTGT	GAGAGACTGA	TTTGAACAGA	180
GGCAGGGGCA	TCCATCTTTC	TAGTGTCAGT	CACAGCAGAA	GCAGTGAGGT	CCTGGTGTCT	240
GTCGCTGCAG	TGGTGGCTTT	TGATACAGGA	GTTCCCTGAT	GGCAGTAGCT	TCTTTGTGGG	300
TTCAGTTCTG	TTGTGTGGTT	CTGCAAGTTC	AGCTTAGAGT	CTGTTTCTTC	AGCTGTTTCA	360
ATGACCCTCT	GAGCTGTCTA	CCATGAAAAA	TTCTATCCTG	CTTACACTAA	TTAGAGCCAA	420
TCCTGTTATT	TACAAATGAA	TATCCTGACC	AGTAATGAAG	GTCTAGACTT	AACTGTAATA	480
TTTTATGACT	TAAATTGTTG	GCATATGTGA	AAACTTTTTG	TTTATTCTAA	ACTTTTTTGT	540
TGTTGTTGTA	AAATAAAACA	TTTATGAAAA	GCGCACCAAA	AAGGATAACA	AATGAGAGTA	600
ATGCAACATA	CAGGCACCAG	CAACTCAGGC	CAGGGAGATG	ATATATGAGC	ATCCCCAATC	660
TCCCCTTTAC	ACTCCCTCAA	ATAACTCAAT	CAAGACTCGA	G		701

- (2) INFORMATION FOR SEQ ID NO:1503:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 257 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1503:

GAATTCGGCC	TTCATGGCCT	AGGAACTAGG	TGACTTTGGG	GCTCATCTCA	CAAGTTTCCT	60
TACACTTAGG	GATCAGTCTT	TTGCTTCCTG	TTGTCCTCTG	CCTGAAAGTA	GTTGCCAAGT	120
TGTACTGTTT	TATATATCCA	CCACAGCATG	AGTTAAACCA	AAGTCTGGAT	CAGCAGACTG	180
CCAGATTTTT	TTTTAACAAA	TTTATTAATC	AATACATTTT	GTCCATGTCT	ACAGTTGTTT	240
ATGGGGGAGA	ACTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:1504:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1504:

GAATTCGGCC	TTCATGGCCT	AGGGGACCTT	GGGAGAATGT	AATCCCTGCC	CCTAGTCTCA	60
GTTTCTGCAT	CCACGGAAGA	GGGGTGAAGA	TGGTCCCTAC	CCCTCCAGAA	TGTTCTTTTT	120
TTTTTTTTT	АААААААА	ААААААААА	AAAGTACGTT	ATGTTTTCAG	ATAAGAACAC	180
TTCTTCATGG	ATGACTTGAA	ATAATTGCCA	TGGTCCCTAA	GTTTTCCTCT	CTGTAGATGA	240
ATGATATAGC	TCAGTATCTA	AGCAGTGGAT	CCTCGAG			277

- (2) INFORMATION FOR SEQ ID NO:1505:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 341 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1505:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAGCCTCCC	AAGCTGCTGG	TATTACAGGC	60
GTGAACCACŤ	GCACCTGGCC	TAATACGATA	TTCTTACAAT	TTAAAAAAATG	AAAGCAGAGG	120
AATGGTGGCA	GGGAAGCTGA	CATTTTAAGA	GTTCACTTCC	TTGTAGTTAT	CACAGTTAAT	180
TCTTACTGTT	AGAATAAGTG	GTAACTTGCC	AAGGTCACAT	TGCTAGATGT	CAGAGCAGAA	240
ATTAGAAATC	AGGTCTAGCC	AAGGCCATCA	CACTTCTCAG	AGCATTAACA	ATTCAATTCA	300
GTTAGTGTTT	ATTGAACACC	TATTGTGTTC	TGGCCCTCGA	G		341

- (2) INFORMATION FOR SEQ ID NO:1506:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 270 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1506:

GAATTCGGCC	TTCATGGCCT	AGGCATTTTG	TCTCTAGAAT	TACCCACCCG	TTCCTGCGCT	60
CTACGGTTCT	CCATGCCCCC	TCCAGTTTGG	GGGTCTAAAC	CGAACAGGAG	AGGTGCAGGG	120
GACCAGGAGG	TGTCCTGGCA	CAAAGGTTCG	GGGGTCTCCC	TGGCAAGGGG	TCCCAGGGCC	180
TGGAGCCCGA	GGCCCAGCCA	AAAGCACACA	GCATCAAAAC	ATGTTTTTAG	TGGGAAGCTC	240
CAGGCCCTGC	CCCTCCCCGG	GGGCCTCGAG				270

- (2) INFORMATION FOR SEQ ID NO:1507:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 462 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1507:

GAATTCGGCC	TTCATGGCCT	AGAGCAGGAA	GATTGTGTGA	GTGCTGGGGT	TTGGGGGTGC	60
CCAAGTTGGG	AACCAGTGGA	GGGAGAGAGA	GGTAGGAGGT	AGATGGATGG	AGATCAAAGG	120
CCAGGCCTGT	GGCCAAGGGG	GCTGCTAACC	CTTCAACCCT	GTGTTAGCCT	GTACACTCAC	180
CAGGCCAGGC	TCAGCAGGCG	GGCTGTTCAC	CTCCTGGCAG	CAAATGGTCC	AGAATGTGCC	240
CTCGCTGCAG	CCCAGCTGGC	TCCAGAAGGG	GGACCACAGA	GGCTGGAGCT	ATGCATGCAC	300
AGTGCTTTCT	CCCAACCTTG	CTTCTGAGAA	AAGTGTCCCT	GCGAGGGCCC	TGGAGGAGGG	360
AGCTAGGGAC	CAGCAGAAGG	GCCTAGGTTT	CTGTAGCATC	ATTTTTAGCC	CTGGCTGAAT	420
CTGGGAAGCA	CCTGGTGGCT	TTAACATTCC	CGTTAGCTCG	AG	***	462

- (2) INFORMATION FOR SEQ ID NO:1508:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 694 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1508:

		and the second second				
GAATTCGGCC	TTCATGGCCT	AGTCACAATC	CACTTAAAGA	AGTTTGGTTA	TATTTCAGTG	60
AAAATTTTCT	TCCAGAGTAG	GTTTTTTTC	GTGGGTTGGG	GGGTAACTTT	ACTACAATTA	120
GTAAGTATGG	TGCAGAATTT	CATGCAAATG	AGGAGTGCCA	GCAGTGTGAT	AATTTAAACA	180
TATTTAAACA	ААААСААААА	AAATGAATGC	ACAAACTTGC	TGCTGCTTAG	ATCACTGCAG	240
CTTCTAGGAC	CCGGTTTCTT	TTACTGATTT	AAAAACAAAA	CAAAAAAAAA	TAAAAAAGTT	300
GTGCCTGAAA	TGAATCTTGT	TTTTTTTTTT	AAGTAGCCGC	CTGGTTACTG	TGTCCTGTAA	360
AATACAGACA	CTTGACCCTT	GGTGTAGCTT	CTGTTCAACT	TTATATCACG	GGAATGGATG	420
GGTCTGATTT	CTTGGCCCTC	TTCTTGAATT	GGCCATATAC	AGGGTCCCTG	GCCAGTGGAC	480
TGAAGGCTTT	GTCTAAGATG	ACAAGGGTCA	GCTCAGGGGA	TGTGGGGGAG	GGCGGTTTTA	540
TCTTCCCCCT	TGTCGTTTGA	GGTTTTGATC	TCTGGGTAAA	GAGGCCGTTT	ATCTTTGTAA	600
ACACGAAACA	TTTTTGCTTT	CTCAAGTTTT	CTGTTAATGG	CGAAAGAATG	GAAGCGAATA	660
AAGTTTTACT	GATTTTTGAG	ACACTAGACT	CGAG			694

- (2) INFORMATION FOR SEQ ID NO:1509:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 490 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1509:

GAATTCGGCC	TTCATGGCCT	AATGAGGTTC	TATCTAGAGG	TGATGGGAGA	CAGTGACAGA	60
TCATCAGGCA	TTAGATTCTC	ATAAGGACTG	CGCAACCTAG	ATCCCTTGAA	TGAACAGTTC	120
ACAATAGGGT	TCACTCTCCA	ATGAGAATCT	AATGCTGCCG	CTGATCTGAC	AGGTGCCAGA	180
GCTCAGGCGG	TAATACGAGA	GGCTGGAGAT	ACAGATAAAG	CTTCAGTTGC	TTGCCCGCCA	240
CTTACCTCCT	CTTGTGCGGC	CCAGTTCCTA	ACAGGCCACA	GACCGCTACC	AGTCCATGGC	300
CTGGAAGTTG	GGGACCCCTC	TACTGGGATA	TTTATAATTG	CATATGTGGT	TACCTAATAT	360
TTCCATGATA	CAACACTGGT	CTAGATTCTA	GGCCATTCTC	CTTCAAAAAG	AACCCTGCTT	420
CCTTACAGTT	TTACTGTTTA	GCAGCAATGT	TTTCTACCCC	TTCTTAAAAT	TTTCAGCCAC	480
CACACTCGAG						490

- (2) INFORMATION FOR SEQ ID NO:1510:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1510:

GAATTCGGCC	TTCATGGCCT	ACTCTCTCAT	TCCTACCCTC	CTCCCCTCCA	CTCACGCTCC	60
TCCCAATCCC	CAAGGTCCTC	TCATTCCCAC	CTTCCTCCCT	TCCTCTCCTC	ACGCTCCTCC	120
CTATCCCCGA	GCTCCTCTCT	CATCCCTACC	CTCCTCCCCT	CCACTCACGC	TCCTCCCAAT	180
CCCCAAGGTC	CTCTCATTCC	CACCTTCCTC	CCTTCCTCTC	CTCACGCTCC	TCCCTATCCC	240
CGAGCTCCTC	TCTCACTCCC	TCCCTCCTCT	CATGCTCCTC	CCCCCTCTCC	TCATGCTCCT	300
CCCCATCCTC	GAG					313

- (2) INFORMATION FOR SEQ ID NO:1511:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1511:

GCCGGGTGGG	CCGGAGGTGG	CGCGGCCGCA	CGGCTTTGTT	CCGGAAAGCC	CTTAGGTGGA	60
GAGCGATGTG	GGGCGCGCA	GGGGGATCGC	GTAGAGGAAC	CTTCGCGCAC	CGCCTCTCCG	120
GGTCTGGGAA	TCTGCTGAAC	TCCTTGCCTC	TCTTGGGGTC	CCTCGAACGC	CCCAGCTAAG	180
AAGGGCGGGG	GCCTTGCCAG	GGCGCGAGCA	ACATGACGTT	CAAGGTCTTC	CTGTGGCTTC	240
TGTAAAGAAA	TGTTCACGTG	GGAGCCTGTC	CACATGGGCT	GTACTAAGGA	TCTGGCACGA	300
GGAAGAAATA	TCACTGCAGA	ACCTGAAGCC	CTCCGTTGGA	AGGGTCACCT	CGAG	354

(2) INFORMATION FOR SEQ ID NO:1512:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 407 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1512:

GAATTCGGCC	AAAGAGGCCT	AGAGCAGCTT	GGCTAAAAGT	AAGGGTGTCG	TGCTGATGGC	60
CCTGTGCGCA	CTGACCCGCG	CTCTGCGCTC	TCTGAACCTG	GCGCCCCGA	CCGTCGCCGC	120
CCCTGCCCCG	AGTCTGTTCC	CCGCCGCCCA	GATGATGAAC	AATGGCCTCC	TCCAACAGCC	180
CTCTGCCTTG	ATGTTGCTCC	CCTGCCGCCC	AGTTCTTACT	TCTGTGGCCC	TTAATGCCAA	240
CTTTGTGTCC	TGGAAGAGTC	GTACCAAGTA	CACCATTACA	CCAGTGAAGA	TGAGGAAGTC	300
TGGGGGCCGA	GACCACACAG	GTGGGAACAA	GGACAGGGG	ATTTAAGCAG	TCAAAAGGAA	360
AAACATGTTA	AGACCCTAGA	CTTGTATATT	GACACACAGA	ACTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1513:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 422 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1513:

GAATTCGGCC	AAAGAGGCCT	ACATTCATAC	AATTACAGAA	TTCAAATATT	GCAAAAGGAT	60
GTGTGTCTTT	CTCCCCGAGC	TCCCCTGTTC	CCCTTCATTG	AAAACCACCA	CGGTGCCATC	120
TCTTGTGTAT	GCAGGGCTAT	GCACCTGCAG	GCACGTGTGT	ATGCACTCCC	CGCTTGTGTT	180
TACACAAGCT	GTGGGGTGTT	ACGCATGCCT	GCTTTTTTCA	CTTAATAATA	CAGCTTGGAG	240
AGATTTTTGT	ATCACATTAT	AAATCCCACT	CGCTCTTTTT	GATGGCCACA	TAATAACTAC	300
TGCATAATAT	GGATACGCCT	TATTTGATTT	AACTAGTTCC	CTAATGATGG	ACTTTTAAGT	360
TGTTTCCTTT	TTTTTTTTTT	TTTGCTACTG	CAAACGATGC	TATCTAGGCC	TCTTTGGCCG	420
AA						422

- (2) INFORMATION FOR SEQ ID NO:1514:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 485 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1514:

GAATTCGGCC	AAAGAGGCCT	ATGGAAATTC	AAGACCTGAT	GTTTGAGGAG	ATGAGGGAAA	60
CTCTTAAAAA	TGACCTAAAA	GCAGTTTTAG	GAGGAAAAGC	TACAATACCT	GAGGTAAAGA	120
ATTCAGAGAA	CTCCAGTAGT	AGGAÇAGAGT	TTCAGCAAAT	AATCAATTTA	GCATTACAAA	180
AAACAGGGAT	GGTAGGGAAA	ATAGAAGGAG	AAAACTCTAA	AATAGGTGAT	GATAATGAAA	240
ATTTAACCTT	TAAATTAGAA	GTAAATGAGC	TGAGTGGTAA	ATTAGACAAC	ACTAACGAAT	300
ACAATAGTAA	TGATGGTAAG	AAATTACCCC	AGGGTGAATC	ACGAAGTTAC	GAAGTCATGG	360
GAAGTATGGA	AGAAACCTTA	TGCAATATAG	ATGACAGAGA	TGGAAATCGC	AATGTCCATT	420
TAGAATTTAC	AGAAAGAGAG	AGTAGGAAGG	ATGGAGAGGA	TGAATTTGTC	AAAGAAAAAC	480

TCGAG 485

- (2) INFORMATION FOR SEQ ID NO:1515:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1515:

GAATTCGGCC	AAAGAGGCCT	AGGCACAGAA	GGGTGGTGAG	TGTGATCAAA	TCTAGTCTCA	60
CTCCCACTTT	TTAGTCTCAC	TCCTACTTTT	GTCCACCACC	CAGGCACGGA	GAGAAAGGAA	120
TGTTTAGCAC	AAGACACAGC	GGAGCTCGGG	ATTGGCTAAA	CTCCCATAGT	ATTTATGGTG	180
GCCGCCGGCG	GGGGCCCCAG	CCCAGCTTGC	AGGCCACCTC	TAGCTTTCTT	CCTACCCCAT	240
TCCCGGCTTC	CCTCCTCCTC	CCCTGCAGCC	TGGTTAGGTG	GATACCTGCC	CTGACATGTG	300
AGGCAAGCTA	AGGCCTGGAG	GGTCAGATGG	GAGACCAGGT	CCCAAGGGAG	CAAGACCTCG	360
CGAAGCGCAG	CAGCCCCGGC	CCTAGGCCTC	TTTGGCCGAA			400

- (2) INFORMATION FOR SEQ ID NO:1516:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 145 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1516:

GAATTCGCGG	CCGCGTCGAC	GTCGACGCGG	CCGCGAATTC	GGCCAAAGAG	GCCTACCCAT	60
GTCAATCAAG	ATGGGTGATT	ATGAAATGCC	AGACTTCTAA	AATAAATGTT	TTGGAATTCA	120
ATGGGTAAAT	AAATGCTGGC	TCGAG				145

- (2) INFORMATION FOR SEQ ID NO:1517:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1517:

GCTGGACCTC CTGTGCAAG	A ACATGAAACA	GCTGTGGTTC	TTCCTTCTCC	TGGTGGCAGC	60
TCCCAGATCG GTTCTGTCC	C AGGTGCAGCT	GCGGGAGTCG	GGCCCAGGAC	TGGTGAAGCC	120
TTCGGAGACC CTGTCCCTC	A CCTGCACTGT	CTCTGGTACT	TCCGTCAGAA	GTGTTAGTTA	180
CGACTGGAGT TGGCTCCGG					240
TTACAGGGGG AGAGGCAAT	T ACAACCCGTC	CCTCGAG			277

- (2) INFORMATION FOR SEQ ID NO:1518:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 161 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double .
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1518:

GAATTCGGCC	AAAGAGGCCT	ACTCATGCAC	CTAATTGGAT	CCTATCTTTG	TGTTGTTAGC	60
TGGTTATTAT	GCAGACTTTA	TTATGTGGTT	${\tt GTTTTATAGT}$	GTCCATAACC	TATGTACTTA	120
AGTTTGTTTT	TGTGGTGGCG	CTTCCAATTA	$\operatorname{GGGCTCTCGA}$	G		161

- (2) INFORMATION FOR SEQ ID NO:1519:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 561 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1519:

GAATTCGGCC	TTCATGGCCT	AATATAAAAC	AATGTTTTTC	AAGGCATTAT	ATAATAGGCT	60
AAGGACAGTG	ACCTCCAAGA	GACAGCAAAC	AAGGTAATAC	CTGTGACTGC	TCCAGCTTAC	120
TGCCTTGAGA	GAATTAATAG	TAGGTTTGTG	GTACAGGGAG	${\tt GGAG}{\it L}{\tt ATCCA}$	GTCAGAGCCC	180
AGCGGACTTG	CTGAATTAAG	GAAATGGAGC	TGAGAGTCCA	GAGAGACCAA	CATGGCTAAA	240
GTTGTCATGA	CAGAGCACTC	AGAACTAGAG	AGCTGCACAG	CAACATAACC	TAAGAGCTCT	300
GAAGATAATC	TCCCTCAAAT	ACTCAGCTGA	GTACTGATCA	ACATATATGT	GTGAGGAAGC	360
TATCTGAGGC	TGACAAAGAA	CTGCCTGAAG	AGATTAGAGG	GAACAGTACT	TGGCACTCAC	420
ACAGAATTGG	AAACTGTACC	TGTTCCCACC	AGCCAAACTG	GAAAAACCTC	AGGATTCATG	480
GGGTACTCAG	AAAGGACTTG	CATCAGGTAT	GGGGAATAAT	TAGCCCTAGA	CAGAGCACTG	540
CTCTAATCCC	ATCCACTCGA	G				561

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEO ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEO ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145,

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NO:1193, SEQ ID NO:1194, SEQ ID NO:1195, SEQ ID NO:1196, SEQ ID NO:1197, SEQ ID NO:1198, SEQ ID NO:1199, SEQ ID NO:1200, SEQ ID NO:1201, SEQ ID NO:1202, SEQ ID NO:1203, SEQ ID NO:1204, SEQ ID NO:1205, SEQ ID NO:1206, SEQ ID NO:1207, SEQ ID NO:1208, SEQ ID NO:1209, SEQ ID NO:1210, SEQ ID NO:1211, SEQ ID NO:1212, SEQ ID NO:1213, SEQ ID NO:1214, SEQ ID NO:1215, SEQ ID NO:1216, SEQ ID NO:1217, SEQ ID NO:1218, SEQ ID NO:1219, SEQ ID NO:1220, SEQ ID NO:1221, SEQ ID NO:1222, SEQ ID NO:1223, SEQ ID NO:1224, SEQ ID NO:1225, SEQ ID NO:1226, SEQ ID NO:1227, SEQ ID NO:1228, SEQ ID NO:1229, SEQ ID NO:1230, SEQ ID NO:1231, SEQ ID NO:1232, SEQ ID NO:1233, SEQ ID NO:1234, SEQ ID NO:1235, SEQ ID NO:1236, SEQ ID NO:1237, SEQ ID NO:1238, SEQ ID NO:1239, SEQ ID NO:1240, SEQ ID NO:1241, SEQ ID NO:1242, SEQ ID NO:1243, SEQ ID NO:1244, SEQ ID NO:1245, SEQ ID NO:1246, SEQ ID NO:1247, SEQ ID NO:1248, SEQ ID NO:1249, SEQ ID NO:1250, SEQ ID NO:1251, SEQ ID NO:1252, SEQ ID NO:1253, SEQ ID NO:1254, SEQ ID NO:1255, SEQ ID NO:1256, SEQ ID NO:1257, SEQ ID NO:1258, SEQ ID NO:1259, SEQ ID NO:1260, SEQ ID NO:1261, SEQ ID NO:1262, SEQ ID NO:1263, SEQ ID NO:1264, SEQ ID NO:1265, SEQ ID NO:1266, SEQ ID NO:1267, SEQ ID NO:1268, SEQ ID NO:1269, SEQ ID NO:1270, SEQ ID NO:1271, SEQ ID NO:1272, SEQ ID NO:1273, SEQ ID NO:1274, SEQ ID NO:1275, SEQ ID NO:1276, SEQ ID NO:1277, SEQ ID NO:1278, SEQ ID NO:1279, SEQ ID NO:1280, SEQ ID NO:1281, SEQ ID NO:1282, SEQ ID NO:1283, SEQ ID NO:1284, SEQ ID NO:1285, SEQ ID NO:1286, SEQ ID NO:1287, SEQ ID NO:1288, SEQ ID NO:1289, SEQ ID NO:1290, SEQ ID NO:1291, SEQ ID NO:1292, SEQ ID NO:1293, SEQ ID NO:1294, SEQ ID NO:1295, SEQ ID NO:1296, SEQ ID NO:1297, SEQ ID NO:1298, SEQ ID NO:1299, SEQ ID NO:1300, SEQ ID NO:1301, SEQ ID NO:1302, SEQ ID NO:1303, SEQ ID NO:1304, SEQ ID NO:1305, SEQ ID NO:1306, SEQ ID NO:1307, SEQ ID NO:1308, SEQ ID NO:1309, SEQ ID NO:1310, SEQ ID NO:1311, SEQ ID NO:1312, SEQ ID NO:1313, SEQ ID NO:1314, SEQ ID NO:1315, SEQ ID NO:1316, SEQ ID NO:1317, SEQ ID NO:1318, SEQ ID NO:1319, SEQ ID NO:1320, SEQ ID NO:1321, SEQ ID NO:1322, SEQ ID NO:1323, SEQ ID NO:1324, SEQ ID NO:1325, SEQ ID NO:1326, SEQ ID NO:1327, SEQ ID NO:1328, SEQ ID

NO:1329, SEO ID NO:1330, SEO ID NO:1331, SEQ ID NO:1332, SEQ ID NO:1333, SEO ID NO:1334, SEQ ID NO:1335, SEQ ID NO:1336, SEQ ID NO:1337, SEQ ID NO:1338, SEQ ID NO:1339, SEQ ID NO:1340, SEQ ID NO:1341, SEQ ID NO:1342, SEQ ID NO:1343, SEQ ID NO:1344, SEQ ID NO:1345, SEQ ID NO:1346, SEQ ID NO:1347, SEQ ID NO:1348, SEQ ID NO:1349, SEQ ID NO:1350, SEQ ID NO:1351, SEQ ID NO:1352, SEQ ID NO:1353, SEQ ID NO:1354, SEQ ID NO:1355, SEQ ID NO:1356, SEQ ID NO:1357, SEQ ID NO:1358, SEQ ID NO:1359, SEQ ID NO:1360, SEQ ID NO:1361, SEQ ID NO:1362, SEQ ID NO:1363, SEQ ID NO:1364, SEQ ID NO:1365, SEQ ID NO:1366, SEQ ID NO:1367, SEQ ID NO:1368, SEQ ID NO:1369, SEQ ID NO:1370, SEQ ID NO:1371, SEQ ID NO:1372, SEQ ID NO:1373, SEQ ID NO:1374, SEQ ID NO:1375, SEQ ID NO:1376, SEQ ID NO:1377, SEQ ID NO:1378, SEQ ID NO:1379, SEQ ID NO:1380, SEQ ID NO:1381, SEQ ID NO:1382, SEQ ID NO:1383, SEQ ID NO:1384, SEQ ID NO:1385, SEQ ID NO:1386, SEQ ID NO:1387, SEQ ID NO:1388, SEQ ID NO:1389, SEQ ID NO:1390, SEQ ID NO:1391, SEQ ID NO:1392, SEQ ID NO:1393, SEQ ID NO:1394, SEQ ID NO:1395, SEQ ID NO:1396, SEQ ID NO:1397, SEQ ID NO:1398, SEQ ID NO:1399, SEQ ID NO:1400, SEQ ID NO:1401, SEQ ID NO:1402, SEQ ID NO:1403, SEQ ID NO:1404, SEQ ID NO:1405, SEQ ID NO:1406, SEQ ID NO:1407, SEQ ID NO:1408, SEQ ID NO:1409, SEQ ID NO:1410, SEQ ID NO:1411, SEQ ID NO:1412, SEQ ID NO:1413, SEQ ID NO:1414, SEQ ID NO:1415, SEQ ID NO:1416, SEQ ID NO:1417, SEQ ID NO:1418, SEQ ID NO:1419, SEQ ID NO:1420, SEQ ID NO:1421, SEQ ID NO:1422, SEQ ID NO:1423, SEQ ID NO:1424, SEQ ID NO:1425, SEQ ID NO:1426, SEQ ID NO:1427, SEQ ID NO:1428, SEQ ID NO:1429, SEQ ID NO:1430, SEQ ID NO:1431, SEQ ID NO:1432, SEQ ID NO:1433, SEQ ID NO:1434, SEQ ID NO:1435, SEQ ID NO:1436, SEQ ID NO:1437, SEQ ID NO:1438, SEQ ID NO:1439, SEQ ID NO:1440, SEQ ID NO:1441, SEQ ID NO:1442, SEQ ID NO:1443, SEQ ID NO:1444, SEQ ID NO:1445, SEQ ID NO:1446, SEQ ID NO:1447, SEQ ID NO:1448, SEQ ID NO:1449, SEQ ID NO:1450, SEQ ID NO:1451, SEQ ID NO:1452, SEQ ID NO:1453, SEQ ID NO:1454, SEQ ID NO:1455, SEQ ID NO:1456, SEQ ID NO:1457, SEQ ID NO:1458, SEQ ID NO:1459, SEQ ID NO:1460, SEQ ID NO:1461, SEQ ID NO:1462, SEQ ID NO:1463, SEQ ID NO:1464, SEQ ID

NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, SEQ ID NO:1500, SEQ ID NO:1501, SEQ ID NO:1502, SEQ ID NO:1503, SEQ ID NO:1504, SEQ ID NO:1505, SEQ ID NO:1506, SEQ ID NO:1507, SEQ ID NO:1508, SEQ ID NO:1513, SEQ ID NO:1514, SEQ ID NO:1515, SEQ ID NO:1516, SEQ ID NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;

or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEO ID NO:1, SEO ID NO:2, SEO ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID

NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172,

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109,

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or to a complement of said sequence.

- 5. An isolated protein encoded by an isolated polynucleotide of claim 1.
- 6. An isolated protein encoded by an isolated polynucleotide of claim 2.
- 7. An isolated protein encoded by an isolated polynucleotide of claim 3.
- 8. An isolated protein encoded by an isolated polynucleotide of claim 4.